

Supplemental Online Content

Buda M, Saha A, Walsh R, et al. A data set and deep learning algorithm for the detection of masses and architectural distortions in digital breast tomosynthesis images. *JAMA Netw Open*. 2021;4(8):e2119100. doi:10.1001/jamanetworkopen.2021.19100

eAppendix 1. Supplemental Methods

eReferences.

eAppendix 2. Results From All Model Runs

This supplemental material has been provided by the authors to give readers additional information about their work.

eAppendix 1. Supplemental Methods

1 Tested loss functions

To provide an insight into the effects of different hyper-parameters on the performance, we performed a grid search over different network sizes and objectness loss functions that address the problem of class imbalance [1]. Our problem is characterized by a significant imbalance between the bounding boxes corresponding to lesions and background class that the network learns to distinguish in the training process. The 4 tested loss functions for addressing this problem were: (i) binary cross-entropy,(ii) weighted binary cross-entropy, (iii) focal loss [2], and (iv) reduced focal loss [3]. The 4 tested loss functions are shown in Figure 1. and formulations are provided in Table 1.

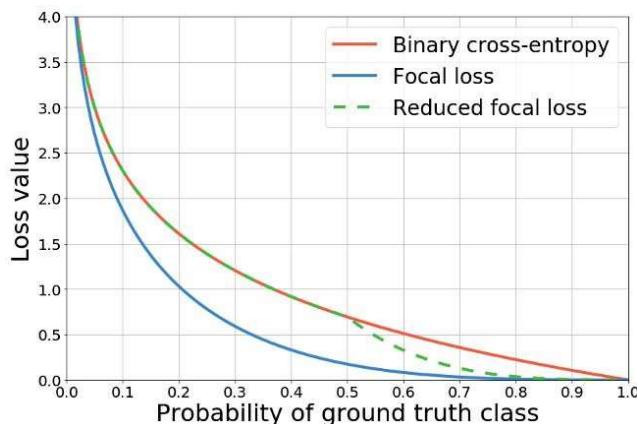


Figure 1: Loss functions tested in the grid search experiment.

Binary cross-entropy is a standard loss function used for training neural networks for binary classification problems. Weighted binary cross-entropy assigns more weight to positive examples which translates to more contribution to the model weights' (parameters) update coming from these examples. In our case, we set the weight of positive examples to the prevalence of negative examples (cells that do not contain an object). This way, the magnitude of contribution from positive and negative examples to the model weights' update was equalized. Focal loss function has a scaling factor that reduces value for well classified examples ($p_t > 0.5$) and gives relatively more value for difficult examples.

Reduced focal loss is equal to binary cross entropy for values of p_t that are lower than threshold θ . Above that threshold, reduced focal loss value is smoothly reduced to focal loss, as shown in Figure 1.

Loss function	Formula
binary cross-entropy	$CE(p, y) = -\log(p_t)$, where $p_t = \begin{cases} p & \text{if } y = 1 \\ 1 - p & \text{otherwise} \end{cases}$
weighted binary cross-entropy	$WCE(p, y) = \begin{cases} -w \cdot \log(p_t) & \text{if } y = 1 \\ -(1 - w) \cdot \log(p_t) & \text{otherwise} \end{cases}$
focal loss	$FL(p, y) = -\alpha(1 - p_t)^\gamma \log(p_t)$
reduced focal loss	$RFL(p, y) = -\alpha f(\theta) \log(p_t)$, where $f(\theta) = \begin{cases} 1 & \text{if } p_t < \theta \\ \left(\frac{1-p_t}{\theta}\right)^\gamma & \text{otherwise} \end{cases}$

Table 1: Formulas of the loss functions tested in the grid search experiment.

2 Hyper-parameters grid search experiment

In total, we trained 768 models and the results from all runs are provided in the Appendix A. In the hyper-parameter grid search experiments, models were trained on the biopsied cases from the training set. Since we trained the models on 2D input data (slice images), we randomly sampled slice images containing ground truth boxes. Evaluation was done after every epoch on positive slice images from biopsied cases in the validation set. For every epoch and every model, the same positive slice from each DBT volume was selected to ensure comparable performance. For each set of hyper-parameters, selection of the best snapshot of model weights was based on sensitivity at 2 false positives (FP) per slice.

For each loss function we selected the best performing model for 3D evaluation on the entire validation set. Following this 3D evaluation, the model with the highest sensitivity at 2 FPs per

DBTvolume on the validation set was used to generate predictions on the test set for the final evaluation. The entire process of selecting the final model for 3D evaluation on the test set is shown in Figure 2.

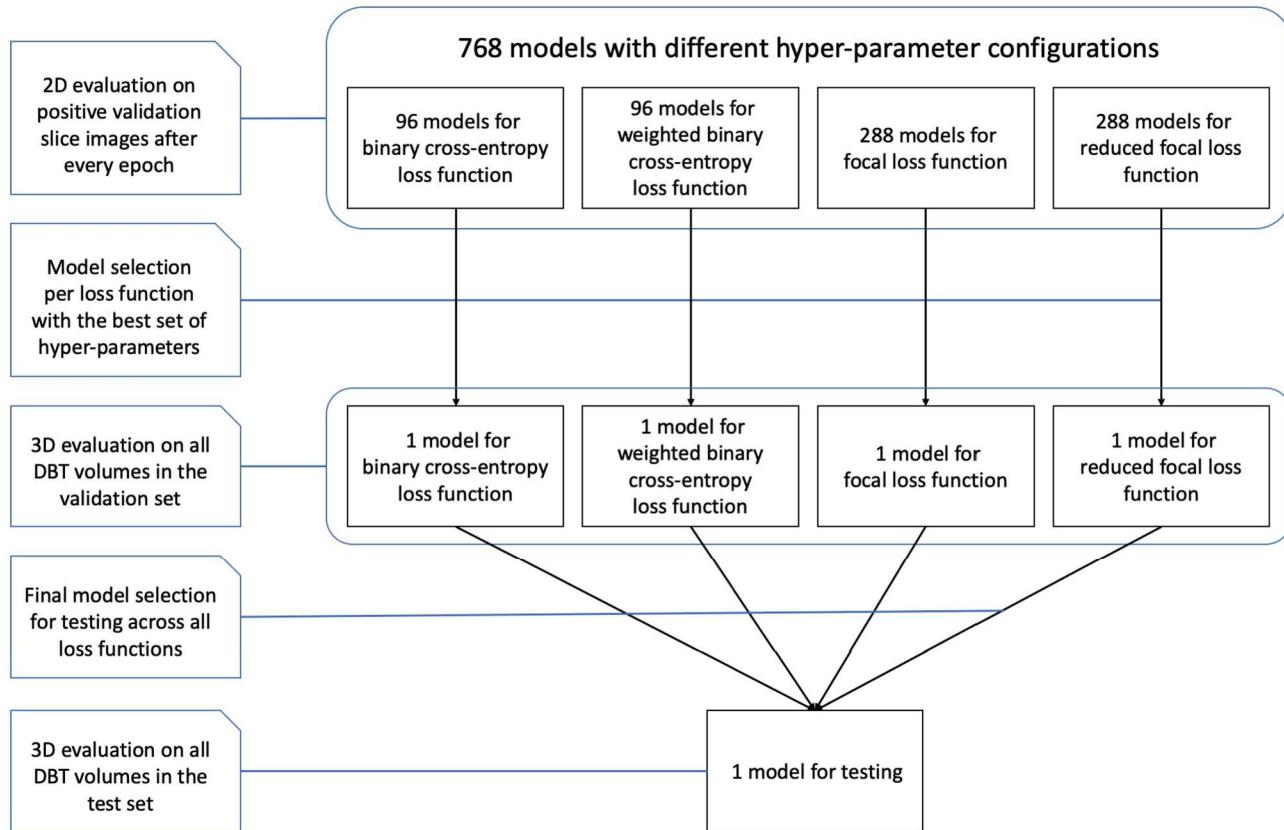


Figure 2: Model selection process.

For measuring performance of detection models we used the free-response receiver operating characteristic (FROC) curve which shows sensitivity of the model in relation to the number of false positive (FP) predictions placed in slice images, volumes, or cases. Points on the FROC curve correspond to model sensitivity and the number of FPs at different thresholds for predicted scores. Each predicted box is associated with a score value ranging from 0.0 to 1.0. Higher score value means that a model is more confident about its prediction. For the score threshold value of 1.0, there are no predictions with predicted score higher than 1.0, which means that sensitivity is 0.0 and the number of FPs is also 0.0. We compute sensitivity and the number of FPs for all possible threshold values. As we reduce the threshold, if some of the boxes with predicted score value above the

threshold are true positive predictions, sensitivity increases. Similarly, as we reduce the threshold, if some of the boxes with predicted score value above the threshold are false positives, the number of FPs increases. In the 2D evaluation, the number of FPs was computed per slice image. Slice image is a cross section of DBT volume. In the 3D evaluation, the number of FPs was computed per DBT volume.

3 Results

Figure 3. shows a box plot summarizing the evaluation of different loss functions on the validation set using a 2D per-slice evaluation. All tested loss functions performed similarly with the best configuration for each loss achieving over 78% sensitivity at 2 FP per slice. Table 2. compares performance of the best model between the 4 tested loss functions.

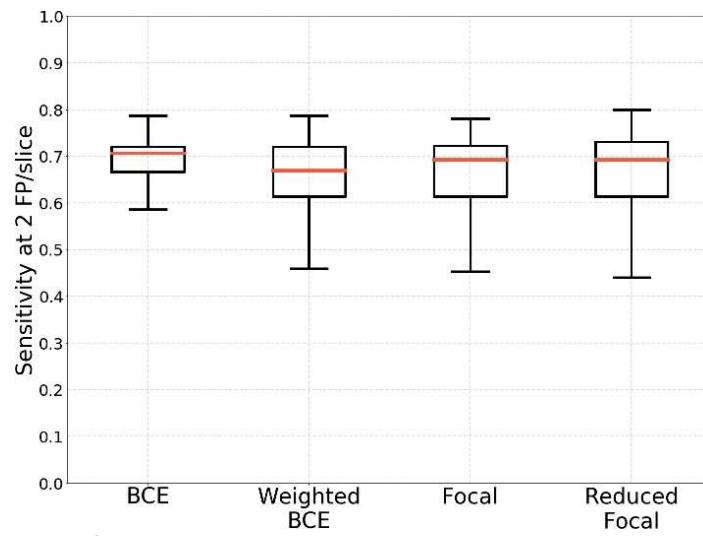


Figure 3: Comparison of different loss functions to address the class imbalance problem: the evaluation on positive cases using sensitivity at 2 FP per slice. BCE = binary cross-entropy.

Loss function	binary cross-entropy	weighted binary cross-entropy	focal loss	reduced focal loss
Sensitivity at 2 FPs per slice	79%	79%	78%	80%
Sensitivity at 2 FPs per DBT volume	59%	59%	60%	58%

Table 2: Comparison of the best models for the 4 tested loss functions on the validation set.

Using the best model from the grid search for each loss function in the 2D per-slice evaluation, we ran inference and evaluated selected models on the entire validation set using the 3D per-volume evaluation. The best performance of 60% sensitivity at 2 FP per DBT volume was achieved by the network trained using focal loss. FROC curves for the selected model on the validation set is shown in Figure 4.

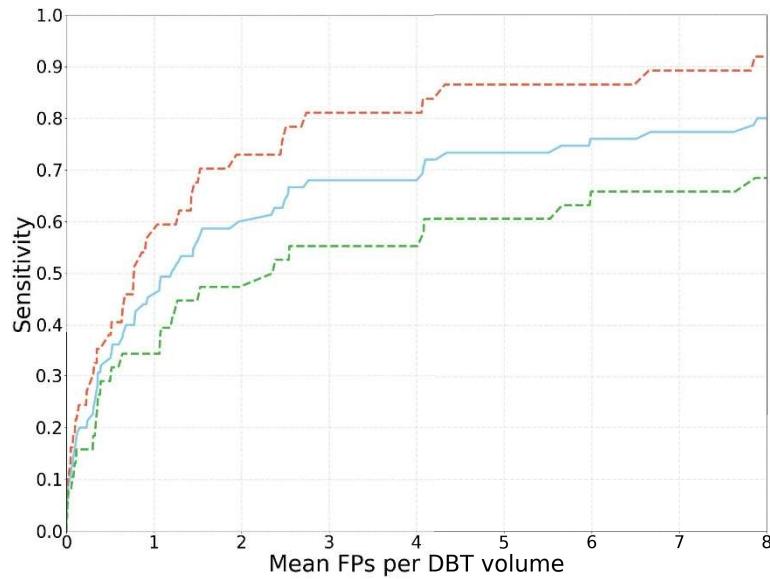


Figure 4: FROC curves showing performance on validation set of a model trained using focal loss. Red curve corresponds to cancer and not biopsied cases, green to benign and not biopsied cases, and blue curve is for allcases (biopsied and not biopsied).

4 Exclusions from initial population

Duke Health Systems' DEDUCE (Duke Enterprise Data Unified Content Explorer) tool was queried to obtain all radiology reports having the word 'tomasynthesis' and all pathology reports having the word 'breast' within the search dates of January 1, 2014 to January 30, 2018. The image download based on the study dates and medical record numbers obtained from the radiology reports resulted in an initial collection of 16 802 studies from 13 954 patients performed between August 26, 2014 and January 29, 2018 with at least one of the four reconstruction volumes: left craniocaudal (LCC), right craniocaudal (RCC), left mediolateral oblique (LMLO), right mediolateral oblique (RMLO) available. We excluded

11 192 cases that did not follow the inclusion criteria for any of the four groups. The primary reasons for exclusions are

- having less than four reconstruction views (for normal, actionable, and benign groups),
- BIRADS 2 and 3 (for normal, benign, and cancer groups),
- spot compression,
- imaging exams or biopsies due to the presence of calcifications/microcalcifications (for actionable, benign, and cancer groups).

Furthermore, cases were excluded for referring to multiple imaging studies/modalities (DBT + MRI, DBT + previous DBT, DBT + Ultrasound) in the radiology reports and causing ambiguity to determine if an abnormality was actually seen in the DBT. We also excluded benign, bilateral masses that end up being cysts based on comparison with previous DBT exam(s).

eReferences.

- [1] Mateusz Buda, Atsuto Maki, and Maciej A Mazurowski. A systematic study of the class imbalance problem in convolutional neural networks. *Neural Networks*, 106:249–259, 2018.
- [2] Tsung-Yi Lin, Priya Goyal, Ross Girshick, Kaiming He, and Piotr Dollár. Focal loss for dense object detection. In *Proceedings of the IEEE international conference on computer vision*, pages 2980–2988, 2017.
- [3] Nikolay Sergievskiy and Alexander Ponamarev. Reduced focal loss: 1st place solution to xview object detection in satellite imagery. *arXiv preprint arXiv:1903.01347*, 2019.

eAppendix 2. Results From All Model Runs

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(2, 6, 4, 12, 8	2	16	weighted-CE {'alpha': 0.25 {'block_confi
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(2, 6, 4, 12, 8	2	8	weighted-CE {'alpha': 0.25 {'block_confi
(1, 3, 2, 6, 4)	4	16	weighted-CE {'alpha': 0.25 {'block_confi
(1, 3, 2, 6, 4)	4	16	weighted-CE {'alpha': 0.25 {'block_confi
(1, 3, 2, 6, 4)	4	8	weighted-CE {'alpha': 0.25 {'block_confi
(1, 3, 2, 6, 4)	4	8	weighted-CE {'alpha': 0.25 {'block_confi
(1, 3, 2, 6, 4)	2	16	weighted-CE {'alpha': 0.25 {'block_confi
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(2, 6, 4, 12, 8	4	8	CE {'alpha': 0.25 {'block_confi
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(2, 6, 4, 12, 8	2	8	CE {'alpha': 0.25 {'block_confi
(1, 3, 2, 6, 4)	4	16	CE {'alpha': 0.25 {'block_confi
(1, 3, 2, 6, 4)	4	16	CE {'alpha': 0.25 {'block_confi
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(1, 3, 2, 6, 4)	4	8	CE {'alpha': 0.25 {'block_confi
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(1, 3, 2, 6, 4)	2	16	CE {'alpha': 0.25 {'block_confi
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8	0.5	1.62488889	0.36
16	0.5	2.25342222	0.52888889
8	0.5	2.61413333	0.6
16	0.5	1.98364444	0.408
8	0.5	1.63608889	0.37333333
16	0.5	2.47297778	0.6
8	0.5	2.20195556	0.46666667
16	0.5	2.0656	0.4
			0.57333333

8	0.5	2.55653333	0.62666667	0.70666667
16	0.5	2.39591111	0.45333333	0.69333333
8	0.5	2.48133333	0.58666667	0.72
16	0.5	2.59226667	0.57333333	0.69333333
8	0.5	2.65662222	0.57333333	0.70222222
16	0.5	2.48524444	0.52	0.69333333
8	0.5	2.65546667	0.61333333	0.74666667
16	0.5	1.95875556	0.44512821	0.56148148
8	0.5	2.05822222	0.43466667	0.56
16	0.5	2.63342222	0.61333333	0.73333333
8	0.5	2.30364444	0.46666667	0.66666667
16	0.5	2.11875556	0.49333333	0.57333333
8	0.5	1.59866667	0.32	0.44
16	0.5	2.74728889	0.64	0.72
8	0.5	2.60471111	0.60333333	0.70666667
16	0.5	2.78897778	0.65333333	0.77333333
8	0.5	2.72702222	0.64	0.76
16	0.5	2.52826667	0.57333333	0.70666667
8	0.5	2.45653333	0.52	0.69333333
16	0.5	2.66568889	0.58666667	0.74666667
8	0.5	2.49004444	0.49333333	0.70666667
16	0.5	2.46337778	0.58666667	0.68
8	0.5	2.49466667	0.54333333	0.715
16	0.5	1.74417778	0.34666667	0.49333333
8	0.5	2.13813333	0.42060606	0.61333333
16	0.5	2.66177778	0.62333333	0.74666667
8	0.5	2.55315556	0.53666667	0.70666667
16	0.5	1.87786667	0.37777778	0.53333333
8	0.5	2.11262222	0.48	0.61333333
16	0.5	2.61528889	0.6	0.70666667
8	0.5	2.72533333	0.64	0.76
16	0.5	2.58515556	0.58	0.72
8	0.5	2.21715556	0.48	0.58333333
16	0.5	2.65724444	0.61333333	0.76
8	0.5	2.88817778	0.73619048	0.8
16	0.5	2.77831111	0.63666667	0.76
8	0.5	2.17644444	0.48	0.61333333
16	0.5	2.54684444	0.6	0.69333333
8	0.5	2.41173333	0.51	0.68
16	0.5	1.81928889	0.36	0.48571429
8	0.5	2.60266667	0.56	0.74666667

16	0.5	2.6992	0.56	0.74518519
8	0.5	2.62764444	0.58222222	0.72222222
16	0.5	2.30613333	0.50666667	0.65333333
8	0.5	2.31546667	0.505	0.68
16	0.5	2.47262222	0.56	0.69333333
8	0.5	2.59662222	0.63407407	0.72
16	0.5	2.48764444	0.54666667	0.69333333
8	0.5	2.62933333	0.58666667	0.736
16	0.5	2.54222222	0.56	0.72
8	0.5	2.62088889	0.59333333	0.70431373
16	0.5	2.20097778	0.46666667	0.62666667
8	0.5	2.4336	0.57333333	0.69333333
16	0.5	2.61608889	0.55666667	0.74666667
8	0.5	2.59982222	0.58666667	0.70666667
16	0.5	1.99208889	0.46666667	0.52
8	0.5	2.31102222	0.52	0.65333333
16	0.5	2.6952	0.6	0.71777778
8	0.5	2.76275556	0.61333333	0.77333333
16	0.5	1.684	0.33333333	0.46666667
8	0.5	2.02293333	0.44	0.56333333
16	0.5	2.55813333	0.56	0.72
8	0.5	2.43928889	0.57333333	0.69333333
16	0.5	2.3424	0.47555556	0.66666667
8	0.5	2.5696	0.6	0.73333333
16	0.5	2.83306667	0.66666667	0.77960784
8	0.5	2.5312	0.57333333	0.7
16	0.5	1.99964444	0.41333333	0.55466667
8	0.5	2.72693333	0.66	0.73333333
16	0.5	2.48906667	0.55466667	0.70933333
8	0.5	2.64728889	0.64	0.73333333
16	0.5	2.1792	0.46333333	0.64
8	0.5	2.04088889	0.42133333	0.55238095
16	0.5	2.1168	0.42666667	0.61111111
8	0.5	2.26648889	0.44	0.64
16	0.5	1.8232	0.37833333	0.53333333
8	0.5	2.35742222	0.54	0.63333333
16	0.5	2.48524444	0.55555556	0.68
8	0.5	2.68551111	0.61333333	0.75333333
16	0.5	2.40035556	0.56	0.69333333
8	0.5	2.74462222	0.62666667	0.74666667
16	0.5	2.45635556	0.53333333	0.70666667

8	0.5	2.38577778	0.50666667	0.68
16	0.5	0	0	0
8	0.5	2.66266667	0.61833333	0.72
16	0.5	2.53173333	0.61333333	0.70666667
8	0.5	2.45484444	0.52	0.69333333
16	0.5	1.82497778	0.32888889	0.52
8	0.5	1.73146667	0.34444444	0.50666667
16	0.5	2.81031111	0.68444444	0.76
8	0.5	2.78897778	0.66666667	0.73333333
16	0.5	2.09164444	0.48	0.57333333
8	0.5	1.79031111	0.40606061	0.52
16	0.5	2.57511111	0.56	0.73333333
8	0.5	2.54444444	0.54933333	0.72
16	0.5	2.7552	0.64888889	0.78666667
8	0.5	2.68382222	0.63466667	0.74166667
16	0.5	2.38284444	0.52	0.66666667
8	0.5	2.56595556	0.54666667	0.73333333
16	0.5	1.85146667	0.36266667	0.54666667
8	0.5	2.54515556	0.54933333	0.73333333
16	0.5	2.36542222	0.52	0.6562963
8	0.5	2.25617778	0.42222222	0.65333333
16	0.5	1.80764444	0.38666667	0.53333333
8	0.5	1.99057778	0.41333333	0.57333333
16	0.5	2.752	0.62	0.76190476
8	0.5	2.62062222	0.56666667	0.73333333
16	0.5	2.28906667	0.49333333	0.64
8	0.5	1.94151111	0.45333333	0.53333333
16	0.5	2.75093333	0.59619048	0.73333333
8	0.5	2.44711111	0.53333333	0.69777778
16	0.5	2.59235556	0.6	0.70769231
8	0.5	2.19084444	0.49333333	0.62666667
16	0.5	2.43164444	0.53777778	0.68
8	0.5	2.58737778	0.62666667	0.70666667
16	0.5	2.26533333	0.49333333	0.65333333
8	0.5	2.46293333	0.52	0.68
16	0.5	2.58195556	0.57333333	0.705
8	0.5	2.53991111	0.52	0.70666667
16	0.5	2.03262222	0.46666667	0.56
8	0.5	1.79733333	0.38666667	0.52
16	0.5	2.59804444	0.6	0.74666667
8	0.5	2.40186667	0.5362963	0.67733333

16	0.5	1.60835556	0.28	0.46266667
8	0.5	2.22933333	0.47619048	0.65333333
16	0.5	2.64888889	0.61333333	0.70666667
8	0.5	2.65608889	0.58666667	0.76
16	0.5	2.28488889	0.44	0.68
8	0.5	2.45031111	0.52	0.72
16	0.5	2.37902222	0.52	0.66666667
8	0.5	2.51973333	0.58666667	0.72
16	0.5	2.36755556	0.52666667	0.68
8	0.5	2.64133333	0.57333333	0.73333333
16	0.5	2.55671111	0.54666667	0.70666667
8	0.5	2.58942222	0.61333333	0.72
16		2.20853333	0.47589744	0.6
8		1.7448	0.38666667	0.48571429
16		2.47084444	0.52	0.70222222
8		2.43928889	0.53555556	0.68
16		1.89804444	0.39666667	0.544
8		1.80791111	0.38666667	0.50666667
16		2.37822222	0.45333333	0.70666667
8		2.40711111	0.55333333	0.69333333
16		2.50497778	0.54333333	0.66666667
8		2.3632	0.48	0.68
16		2.58613333	0.56571429	0.73393939
8		2.59182222	0.54666667	0.72444444
16		2.68168889	0.60222222	0.74666667
8		2.73955556	0.6	0.74933333
16		2.58435556	0.60444444	0.73333333
8		2.26408889	0.45333333	0.64
16		2.01004444	0.44380952	0.57333333
8		1.63875556	0.34666667	0.44
16		2.37857778	0.4969697	0.68
8		2.39626667	0.50222222	0.66666667
16		1.94764444	0.37904762	0.54666667
8		1.85253333	0.41333333	0.53238095
16		2.59564444	0.61	0.71515152
8		2.51608889	0.58333333	0.72
16		2.668	0.58666667	0.76
8		2.49733333	0.53333333	0.72
16		2.47742222	0.54666667	0.69333333
8		2.5928	0.59111111	0.73333333
16		2.40728889	0.53185185	0.65916667

8	2.50151111	0.57333333	0.68
16	2.54248889	0.52	0.73333333
8	2.67351111	0.6	0.73333333
16	1.9832	0.44	0.56
8	1.89208889	0.38222222	0.53333333
16	2.32035556	0.48666667	0.64
8	2.73955556	0.64	0.73333333
16	1.60471111	0.33333333	0.46666667
8	2.14524444	0.472	0.58666667
16	2.56257778	0.6	0.70666667
8	2.38453333	0.50666667	0.68133333
16	2.80204444	0.67466667	0.76
8	2.62782222	0.58666667	0.73333333
16	0	0	0
8	2.57342222	0.57333333	0.70974359
16	2.77128889	0.65333333	0.76
8	2.48311111	0.545	0.69333333
16	0	0	0
8	2.70382222	0.58666667	0.74666667
16	1.91511111	0.44	0.54666667
8	1.79368889	0.36533333	0.49066667
16	2.78871111	0.62181818	0.77333333
8	2.42684444	0.52	0.69333333
16	1.64293333	0.30358974	0.46666667
8	1.87662222	0.44	0.54666667
16	2.21395556	0.52	0.63703704
8	2.59262222	0.57333333	0.72
16	2.63911111	0.5752381	0.73333333
8	2.31911111	0.45333333	0.66666667
16	2.39431111	0.50564103	0.69333333
8	2.35511111	0.51111111	0.66666667
16	2.56115556	0.53333333	0.72
8	2.77173333	0.66666667	0.76
16	2.50684444	0.54666667	0.69333333
8	2.33626667	0.52	0.66666667
16	2.28915556	0.46666667	0.66666667
8	2.30773333	0.53466667	0.65333333
16	2.57795556	0.58666667	0.72
8	2.68204444	0.62	0.74666667
16	1.83226667	0.37466667	0.49728395
8	1.93848889	0.45333333	0.52

16	2.60124444	0.57333333	0.72
8	2.52471111	0.56	0.7
16	2.5584	0.57833333	0.72
8	2.56871111	0.6	0.70666667
16	2.79804444	0.6	0.78
8	2.83937778	0.66133333	0.77333333
16	2.57973333	0.63333333	0.72
8	2.45324444	0.56	0.69333333
16	2.63937778	0.60888889	0.72727273
8	2.61404444	0.61714286	0.70666667
16	1.94204444	0.42666667	0.51555556
8	1.99173333	0.44	0.5255914
16	2.46826667	0.52	0.7
8	2.60302222	0.6	0.72
16	2.53146667	0.6	0.69333333
8	2.3512	0.54666667	0.64
16	2.67644444	0.61333333	0.73333333
8	2.39724444	0.52	0.69333333
16	2.32231111	0.54333333	0.62666667
8	2.73306667	0.64	0.74666667
16	2.58088889	0.58133333	0.73777778
8	2.49306667	0.54666667	0.70666667
16	2.3472	0.52	0.66666667
8	2.47431111	0.56	0.68
16	2.45511111	0.55333333	0.69333333
8	2.46168889	0.56	0.69333333
16	1.88071111	0.37333333	0.54666667
8	1.67946667	0.37833333	0.46666667
16	2.4992	0.592	0.68
8	2.49608889	0.54666667	0.68833333
16	1.78684444	0.34666667	0.50666667
8	1.99706667	0.464	0.54666667
16	2.27786667	0.49333333	0.64
8	2.33111111	0.48848485	0.66666667
16	2.47048889	0.48888889	0.70666667
8	2.66195556	0.6	0.73333333
16	2.39768889	0.53333333	0.69333333
8	2.63866667	0.62166667	0.69714286
16	2.53795556	0.59333333	0.70666667
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16	2.29466667	0.52	0.62666667

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16	1.61377778	0.34666667	0.45333333
8	1.73013333	0.36444444	0.50666667
16	2.60195556	0.58952381	0.72
8	2.45386667	0.54666667	0.664
16	1.96746667	0.44166667	0.57066667
8	2.01404444	0.4	0.57333333
16	2.34302222	0.54666667	0.6762963
8	2.61333333	0.61333333	0.69333333
16	2.74186667	0.64	0.76
8	2.12577778	0.48	0.57333333
16	2.65768889	0.58666667	0.74666667
8	2.37893333	0.56	0.66666667
16	2.58764444	0.58095238	0.70518519
8	2.81946667	0.66666667	0.77333333
16	2.48293333	0.53333333	0.70666667
8	2.61137778	0.57333333	0.72266667
16	1.86773333	0.42666667	0.52
8	2.09075556	0.49333333	0.57333333
16	2.76826667	0.58666667	0.74666667
8	2.33271111	0.52666667	0.62
16	1.78764444	0.4230303	0.50666667
8	1.92666667	0.44	0.54666667
16	2.55208889	0.55333333	0.70666667
8	2.57315556	0.6	0.71428571
16	2.72888889	0.66666667	0.74666667
8	2.57653333	0.6	0.72
16	2.45262222	0.54	0.69333333
8	2.51342222	0.51911111	0.70666667
16	2.16293333	0.44	0.61333333
8	1.94586667	0.42666667	0.58666667
16	2.62275556	0.58666667	0.74666667
8	2.39644444	0.54666667	0.66666667
16	2.26995556	0.48666667	0.64
8	1.94071111	0.42222222	0.53333333
16	2.57466667	0.50666667	0.72
8	2.77733333	0.66666667	0.74666667
16	2.18897778	0.50133333	0.6
8	1.91715556	0.43111111	0.54133333
16	1.724	0.38666667	0.48833333
8	2.74773333	0.64	0.77333333

16	2.50346667	0.59666667	0.70666667
8	2.65973333	0.58666667	0.73333333
16	2.34622222	0.50933333	0.67583333
8	2.38897778	0.48740741	0.68
16	2.61991111	0.56	0.72
8	2.14231111	0.45333333	0.57333333
16	2.4656	0.56	0.70666667
8	2.44995556	0.54666667	0.69333333
16	2.38897778	0.52	0.68
8	1.71475556	0.34666667	0.48
16	2.17866667	0.488	0.59
8	2.68568889	0.64444444	0.70666667
16	2.4152	0.54285714	0.65939394
8	2.55155556	0.56	0.69333333
16	2.47431111	0.54666667	0.68
8	2.58773333	0.64	0.70666667
16	2.32835556	0.53333333	0.66666667
8	2.73191111	0.61444444	0.74666667
16	2.56417778	0.58933333	0.70666667
8	2.72008889	0.62666667	0.73333333
16	2.54853333	0.54666667	0.69212121
8	2.59066667	0.58666667	0.72
16	2.3304	0.46666667	0.68
8	2.536	0.54166667	0.71111111
16	1.72951111	0.30666667	0.49333333
8	1.70231111	0.4	0.45933333
16	2.36764444	0.50666667	0.65333333
8	2.49564444	0.62666667	0.70666667
16	2.39102222	0.576	0.65777778
8	2.19893333	0.45333333	0.64
16	2.67608889	0.65333333	0.75333333
8	2.35617778	0.50666667	0.65333333
16	2.58328889	0.53333333	0.72666667
8	2.32711111	0.47555556	0.67212121
16	2.44088889	0.54666667	0.68
8	2.67582222	0.64952381	0.73333333
16	2.6392	0.57333333	0.74666667
8	2.5616	0.56	0.73333333
16	2.19688889	0.48666667	0.64
8	2.3168	0.49333333	0.6544
16	2.34604444	0.49333333	0.65333333

8	2.32986667	0.51238095	0.62166667
16	2.53644444	0.56	0.72
8	2.59342222	0.5769697	0.71393939
16	2.36053333	0.51333333	0.66666667
8	2.0296	0.43666667	0.57333333
16	2.32568889	0.48	0.66666667
8	2.56017778	0.49333333	0.71619048
16	2.68968889	0.53266667	0.752
8	2.76977778	0.66857143	0.74666667
16	2.54782222	0.6	0.69333333
8	2.53866667	0.54666667	0.70666667
16	2.64391111	0.62133333	0.73333333
8	2.61866667	0.6	0.71111111
16	2.58977778	0.57333333	0.70666667
8	2.57244444	0.54666667	0.73333333
16	1.97475556	0.43238095	0.54666667
8	2.09733333	0.45904762	0.56
16	2.34248889	0.49166667	0.66333333
8	2.37582222	0.53333333	0.68
16	2.23902222	0.47333333	0.61333333
8	2.13146667	0.43151515	0.61333333
16	2.09875556	0.42666667	0.56333333
8	2.37777778	0.56	0.66666667
16	2.22257778	0.40733333	0.64
8	2.69066667	0.59111111	0.76
16	2.41564444	0.50666667	0.67666667
8	2.52017778	0.55111111	0.70666667
16	2.24942222	0.46666667	0.67333333
8	2.29137778	0.50222222	0.66666667
16	2.3848	0.525	0.68848485
8	2.09484444	0.42871795	0.57333333
16	1.92675556	0.37111111	0.54666667
8	1.89573333	0.38666667	0.53333333
16	2.39208889	0.53333333	0.68
8	2.5528	0.61428571	0.72
16	1.93831111	0.40444444	0.54666667
8	2.10026667	0.44	0.58666667
16	2.66142222	0.65333333	0.70666667
8	2.7584	0.61333333	0.74933333
16	2.7288	0.62555556	0.76
8	2.5584	0.58666667	0.70666667

16		2.53635556	0.57333333	0.73333333
8		2.51048889	0.59238095	0.69333333
16		2.55688889	0.57111111	0.70666667
8		2.58817778	0.61333333	0.70666667
16		2.34373333	0.42666667	0.69238095
8		2.53466667	0.54666667	0.72
16	0.5	1.57315556	0.33333333	0.42666667
8	0.5	1.74444444	0.33111111	0.49333333
16	0.5	2.61688889	0.595	0.70666667
8	0.5	2.61875556	0.61333333	0.73333333
16	0.5	2.35253333	0.46666667	0.62666667
8	0.5	2.03911111	0.44	0.55794872
16	0.5	2.5624	0.62666667	0.71733333
8	0.5	2.63911111	0.56	0.73333333
16	0.5	2.58186667	0.58666667	0.70666667
8	0.5	2.55973333	0.56	0.73333333
16	0.5	2.57253333	0.57333333	0.73333333
8	0.5	2.68186667	0.61333333	0.76
16	0.5	2.50577778	0.525	0.70666667
8	0.5	2.66524444	0.62814815	0.73333333
16	0.5	2.65306667	0.61333333	0.72
8	0.5	2.42782222	0.49111111	0.70666667
16	0.5	1.81511111	0.43333333	0.50666667
8	0.5	2.04942222	0.44761905	0.56
16	0.5	2.57137778	0.61666667	0.73333333
8	0.5	2.62844444	0.56	0.755
16	0.5	2.0544	0.45333333	0.56333333
8	0.5	1.47137778	0.28	0.44
16	0.5	2.3416	0.55333333	0.65333333
8	0.5	2.86373333	0.64	0.78666667
16	0.5	2.54737778	0.54666667	0.70666667
8	0.5	1.51697778	0.32444444	0.41333333
16	0.5	2.52853333	0.53866667	0.71733333
8	0.5	2.43848889	0.56	0.68
16	0.5	2.61333333	0.58666667	0.73333333
8	0.5	2.83386667	0.64	0.76
16	0.5	2.48284444	0.56	0.70666667
8	0.5	2.48853333	0.55111111	0.69333333
16	0.5	1.69004444	0.34666667	0.47384615
8	0.5	1.67511111	0.35515152	0.4515942
16	0.5	2.4208	0.56	0.68

8	0.5	2.25733333	0.49777778	0.65333333
16	0.5	1.71555556	0.36095238	0.49333333
8	0.5	2.02942222	0.40952381	0.57166667
16	0.5	2.52924444	0.62666667	0.69166667
8	0.5	1.88426667	0.41333333	0.53333333
16	0.5	2.7416	0.61333333	0.74285714
8	0.5	2.0976	0.42	0.60571429
16	0.5	2.51733333	0.56	0.70666667
8	0.5	2.62195556	0.57333333	0.74666667
16	0.5	2.07662222	0.472	0.6
8	0.5	2.40471111	0.53333333	0.66666667
16	0.5	2.668	0.65333333	0.73333333
8	0.5	2.39075556	0.56952381	0.66666667
16	0.5	1.9056	0.38933333	0.56
8	0.5	1.86293333	0.41333333	0.52
16	0.5	2.47528889	0.53333333	0.69333333
8	0.5	2.69493333	0.6	0.76
16	0.5	2.056	0.43833333	0.58666667
8	0.5	1.9904	0.40888889	0.55111111
16	0.5	2.4632	0.56	0.69555556
8	0.5	2.12506667	0.44	0.62431373
16	0.5	2.57182222	0.59555556	0.72
8	0.5	2.49991111	0.53333333	0.70666667
16	0.5	1.97013333	0.45333333	0.54666667
8	0.5	2.70755556	0.62	0.78666667
16	0.5	2.64088889	0.59	0.72533333
8	0.5	2.50213333	0.54666667	0.68
16	0.5	2.39386667	0.52	0.68
8	0.5	2.37537778	0.49333333	0.70083333
16	0.5	1.69964444	0.36	0.48
8	0.5	1.65093333	0.37333333	0.45333333
16	0.5	2.61271111	0.6	0.72
8	0.5	2.66835556	0.62333333	0.72
16	0.5	2.15022222	0.48	0.6
8	0.5	1.96817778	0.41333333	0.54666667
16	0.5	2.11395556	0.43333333	0.6
8	0.5	2.79848889	0.67272727	0.76
16	0.5	2.68791111	0.61666667	0.73333333
8	0.5	2.63431111	0.58666667	0.74666667
16	0.5	2.53733333	0.61403509	0.69333333
8	0.5	2.81528889	0.63555556	0.77333333

16	0.5	2.45884444	0.51466667	0.66666667
8	0.5	2.47413333	0.51555556	0.72
16	0.5	2.41964444	0.54666667	0.66666667
8	0.5	2.7832	0.65555556	0.77333333
16	0.5	1.76	0.34933333	0.50666667
8	0.5	2.18764444	0.50666667	0.61333333
16	0.5	2.53155556	0.57333333	0.70666667
8	0.5	2.65306667	0.62666667	0.73333333
16	0.5	1.98773333	0.45833333	0.57333333
8	0.5	1.64844444	0.33333333	0.47130435
16	0.5	2.41715556	0.50666667	0.69333333
8	0.5	2.76622222	0.62666667	0.77333333
16	0.5	2.5672	0.58666667	0.70666667
8	0.5	2.63591111	0.58518519	0.70666667
16	0.5	2.60088889	0.62666667	0.70666667
8	0.5	2.59484444	0.62222222	0.685
16	0.5	2.46888889	0.57	0.68
8	0.5	2.52266667	0.53333333	0.69333333
16	0.5	2.22711111	0.43809524	0.66666667
8	0.5	2.67511111	0.59555556	0.73
16	0.5	1.71475556	0.37454545	0.48666667
8	0.5	1.70355556	0.36	0.48
16	0.5	2.65724444	0.63555556	0.74666667
8	0.5	2.74142222	0.58666667	0.74666667
16	0.5	2.10106667	0.45333333	0.57333333
8	0.5	2.13475556	0.50666667	0.56828829
16	0.5	2.74782222	0.65333333	0.74666667
8	0.5	2.55226667	0.49333333	0.73333333
16	0.5	2.4472	0.54666667	0.68
8	0.5	2.46613333	0.54666667	0.68266667
16	0.5	2.31697778	0.49333333	0.66666667
8	0.5	2.40302222	0.49333333	0.66666667
16	0.5	2.51884444	0.57333333	0.67636364
8	0.5	2.55751111	0.54133333	0.73333333
16	0.5	2.55075556	0.59047619	0.72
8	0.5	2.56995556	0.61333333	0.70666667
16	0.5	2.1616	0.49142857	0.61098039
8	0.5	1.74888889	0.36	0.50533333
16	0.5	2.53964444	0.54666667	0.71282051
8	0.5	2.43155556	0.52606061	0.65333333
16	0.5	2.16924444	0.49333333	0.58666667

8	0.5	2.31093333	0.51733333	0.64
16	0.5	2.6056	0.57111111	0.73333333
8	0.5	2.5128	0.57333333	0.70242424
16	0.5	2.46177778	0.54666667	0.66666667
8	0.5	2.6424	0.6	0.74666667
16	0.5	2.82266667	0.62666667	0.766
8	0.5	2.4632	0.54666667	0.69333333
16	0.5	2.6424	0.59272727	0.73333333
8	0.5	2.5384	0.57333333	0.68
16	0.5	2.46568889	0.54666667	0.70666667
8	0.5	2.53546667	0.58666667	0.72
16	0.5	0	0	0
8	0.5	2.56915556	0.54222222	0.73333333
16	0.5	2.59564444	0.55111111	0.76
8	0.5	2.61235556	0.58666667	0.70666667
16	0.5	2.18293333	0.52148148	0.61333333
8	0.5	2.064	0.46333333	0.56
16	0.5	2.57102222	0.58	0.71368421
8	0.5	2.54888889	0.51555556	0.72
16	0.5	2.44026667	0.52	0.73333333
8	0.5	2.38853333	0.51	0.69333333
16	0.5	2.56737778	0.62666667	0.69333333
8	0.5	2.47555556	0.54666667	0.69333333
16	0.5	2.29351111	0.50666667	0.65333333
8	0.5	2.55315556	0.54666667	0.70666667
16	0.5	2.61271111	0.584	0.73333333
8	0.5	2.57475556	0.61333333	0.73333333
16		1.51484444	0.26666667	0.46666667
8		2.33377778	0.47	0.65333333
16		2.40826667	0.49333333	0.70666667
8		2.59546667	0.62444444	0.72444444
16		1.70035556	0.36285714	0.48
8		1.73822222	0.37333333	0.46666667
16		2.48693333	0.53333333	0.70666667
8		2.57831111	0.58666667	0.70666667
16		2.76124444	0.62333333	0.77777778
8		2.50773333	0.57333333	0.68
16		2.77884444	0.56	0.76
8		2.47831111	0.52	0.70782609
16		2.01431111	0.45333333	0.57333333
8		2.35671111	0.52	0.69333333

16	2.42231111	0.56	0.66666667
8	2.49528889	0.53333333	0.72
16	1.93315556	0.36	0.57333333
8	1.64791111	0.29142857	0.46666667
16	2.49048889	0.54666667	0.70666667
8	2.65333333	0.62222222	0.73333333
16	2.00044444	0.46666667	0.57333333
8	1.73866667	0.32	0.48
16	2.49288889	0.53333333	0.72
8	2.58195556	0.62666667	0.72
16	2.66266667	0.57333333	0.74666667
8	2.12044444	0.47407407	0.60733333
16	2.46302222	0.54666667	0.70666667
8	2.75324444	0.62666667	0.76
16	2.61084444	0.58666667	0.73333333
8	2.62408889	0.6	0.73333333
16	2.58533333	0.52666667	0.73333333
8	2.41537778	0.50666667	0.68
16	0	0	0
8	1.93857778	0.44333333	0.56
16	2.70826667	0.65333333	0.73333333
8	2.60088889	0.57333333	0.73333333
16	2.06657778	0.46	0.56
8	1.69742222	0.34933333	0.49333333
16	2.20933333	0.46666667	0.61333333
8	2.67591111	0.66666667	0.73333333
16	2.45333333	0.55384615	0.69333333
8	2.81022222	0.67833333	0.76
16	2.61431111	0.50666667	0.74666667
8	2.50168889	0.51555556	0.72
16	2.69635556	0.64333333	0.74666667
8	2.57137778	0.61333333	0.72
16	2.6568	0.56	0.76
8	2.60302222	0.61904762	0.74933333
16	1.82133333	0.4152381	0.52
8	2.75466667	0.65333333	0.74666667
16	2.38337778	0.50666667	0.68
8	2.54222222	0.53333333	0.73333333
16	1.89386667	0.42666667	0.54666667
8	1.70106667	0.28888889	0.50666667
16	2.52586667	0.57333333	0.70666667

8	2.3296	0.49333333	0.66666667
16	2.46257778	0.46666667	0.72
8	2.40977778	0.50666667	0.68
16	2.46968889	0.56444444	0.69333333
8	2.43635556	0.53333333	0.67111111
16	2.29902222	0.46666667	0.66666667
8	2.66764444	0.58333333	0.73333333
16	2.5144	0.6	0.70666667
8	2.40533333	0.48	0.69333333
16	2.43004444	0.54666667	0.70666667
8	1.56968889	0.31833333	0.45333333
16	2.5584	0.59066667	0.72
8	2.59733333	0.57333333	0.74333333
16	2.14302222	0.47259259	0.58666667
8	2.02693333	0.44666667	0.57333333
16	2.57866667	0.54666667	0.70857143
8	2.38471111	0.57333333	0.68
16	2.38871111	0.49333333	0.69333333
8	2.46897778	0.53904762	0.69333333
16	2.50364444	0.53333333	0.71030303
8	2.33546667	0.53333333	0.65333333
16	2.58257778	0.6	0.73333333
8	2.74364444	0.62666667	0.76
16	2.56782222	0.56380952	0.73333333
8	2.73146667	0.6	0.76
16	1.94977778	0.44	0.5525
8	2.03911111	0.45333333	0.56
16	2.34311111	0.49333333	0.64
8	2.69795556	0.62666667	0.72
16	1.8912	0.41481481	0.52177778
8	2.23475556	0.50666667	0.62877193
16	2.69164444	0.61333333	0.73333333
8	2.63448889	0.58666667	0.74666667
16	2.66631111	0.58666667	0.76
8	2.71004444	0.6	0.74666667
16	2.54328889	0.53333333	0.70666667
8	2.68897778	0.61666667	0.74666667
16	2.70026667	0.615	0.74666667
8	2.16488889	0.45490196	0.61
16	2.68666667	0.61333333	0.73333333
8	2.30906667	0.48	0.66666667

16	1.95253333	0.4	0.56
8	1.94764444	0.45333333	0.52
16	2.6712	0.61866667	0.74666667
8	2.55031111	0.54666667	0.70666667
16	1.91297778	0.43809524	0.54133333
8	1.65155556	0.34666667	0.44
16	2.42835556	0.6	0.65333333
8	2.43155556	0.50666667	0.69333333
16	2.19306667	0.448	0.61333333
8	2.6184	0.61333333	0.73333333
16	2.38791111	0.50666667	0.68
8	2.39662222	0.56444444	0.68
16	2.44328889	0.54666667	0.68848485
8	2.5816	0.56666667	0.70666667
16	2.34062222	0.52	0.68
8	2.5584	0.58909091	0.70666667
16	2.05626667	0.48	0.54333333
8	2.16871111	0.45333333	0.64
16	2.46888889	0.5769697	0.66666667
8	2.6432	0.57666667	0.74666667
16	2.50897778	0.58666667	0.70666667
8	1.87004444	0.36444444	0.54333333
16	2.03937778	0.44777778	0.55
8	2.61084444	0.55555556	0.73333333
16	2.42844444	0.56	0.6647619
8	2.34497778	0.52	0.69333333
16	2.67022222	0.50666667	0.78074074
8	2.44791111	0.54666667	0.69333333
16	2.3696	0.46666667	0.70666667
8	2.58	0.6	0.70666667
16	2.63111111	0.58571429	0.74666667
8	2.4704	0.57333333	0.68
16	1.99937778	0.48	0.56
8	2.15848889	0.48833333	0.6
16	2.51982222	0.54666667	0.70666667
8	2.7072	0.61333333	0.73333333
16	2.47128889	0.52166667	0.70666667
8	2.47946667	0.57333333	0.68
16	2.1064	0.48	0.57333333
8	2.51404444	0.54	0.70666667
16	1.95333333	0.43238095	0.56666667

8	2.53226667	0.53333333	0.70666667
16	2.54133333	0.6	0.70666667
8	2.71048889	0.57333333	0.76
16	2.60124444	0.57333333	0.73333333
8	2.39528889	0.51076923	0.67666667
16	2.41697778	0.57333333	0.68484848
8	2.49146667	0.49333333	0.70666667
16	1.86577778	0.41333333	0.51333333
8	1.99582222	0.4	0.56
16	2.64195556	0.6	0.73333333
8	2.7152	0.61333333	0.73333333
16	1.93573333	0.39333333	0.56
8	1.71431111	0.34333333	0.48848485
16	2.46871111	0.50666667	0.73333333
8	2.75671111	0.68	0.77333333
16	2.34844444	0.53333333	0.66666667
8	2.51031111	0.50666667	0.72
16	2.33502222	0.50666667	0.66285714
8	2.48764444	0.53166667	0.72
16	2.50533333	0.56	0.70666667
8	2.37422222	0.53142857	0.69333333
16	2.55964444	0.55066667	0.72
8	2.64097778	0.58333333	0.73333333
16	2.20853333	0.46666667	0.62666667
8	2.12586667	0.45333333	0.6
16	2.50915556	0.59333333	0.69333333
8	2.51048889	0.59466667	0.68
16	2.09475556	0.45333333	0.57333333
8	2.17146667	0.48	0.61333333
16	2.4056	0.498	0.68
8	2.66231111	0.60533333	0.72
16	2.38924444	0.55666667	0.68
8	2.59297778	0.52	0.72
16	2.67333333	0.60266667	0.73333333
8	2.5672	0.59833333	0.69333333
16	2.73706667	0.655	0.72666667
8	2.65955556	0.59666667	0.74666667
16	2.75048889	0.608	0.77333333
8	2.5288	0.55833333	0.70666667
16	1.90151111	0.39384615	0.56
8	1.91644444	0.38666667	0.53333333

16	2.47795556	0.54666667	0.70666667
8	2.5592	0.56	0.70666667
16	1.87271111	0.408	0.53333333
8	2.03191111	0.465	0.57333333
16	2.57644444	0.55111111	0.76
8	2.57128889	0.56	0.70666667
16	2.42177778	0.56	0.65904762
8	2.27066667	0.53333333	0.622
16	2.34853333	0.56	0.65333333
8	2.62897778	0.61666667	0.73333333
16	2.31662222	0.52	0.66666667
8	2.7328	0.6	0.76
16	2.59111111	0.54962963	0.73333333
8	2.23448889	0.50666667	0.64
16	2.16924444	0.50666667	0.58666667
8	2.39502222	0.52	0.67777778
16	2.47031111	0.52	0.68
8	2.58337778	0.59333333	0.71333333
16	1.78391111	0.38857143	0.49333333
8	2.60408889	0.57333333	0.70833333
16	2.62453333	0.64666667	0.70666667
8	2.67217778	0.58666667	0.74666667
16	2.67573333	0.64	0.74666667
8	2.73324444	0.65333333	0.74666667
16	2.37786667	0.49333333	0.68
8	2.6248	0.62666667	0.74666667
16	2.71075556	0.55555556	0.77066667
8	2.7312	0.64952381	0.74666667
16	2.57511111	0.50666667	0.69333333
8	2.54942222	0.53333333	0.73333333
16	2.14133333	0.52	0.6
8	1.88222222	0.4	0.53333333
16	2.60391111	0.56333333	0.73333333
8	2.77662222	0.6	0.78666667
16	2.30551111	0.52	0.64
8	1.87475556	0.37733333	0.52
16	2.64355556	0.58666667	0.73333333
8	2.45626667	0.54933333	0.70666667
16	2.56168889	0.51809524	0.73333333
8	2.25875556	0.44888889	0.68
16	2.31324444	0.445	0.66666667

8	2.26142222	0.54666667	0.65333333
16	2.35635556	0.46666667	0.69333333
8	2.26035556	0.48	0.64
16	2.15768889	0.46666667	0.61333333
8	2.38755556	0.54666667	0.65333333
16	2.10106667	0.43111111	0.6
8	2.25955556	0.45833333	0.62666667
16	2.87582222	0.68333333	0.78666667
8	2.63955556	0.60888889	0.72
16	1.86675556	0.3875	0.5
8	2.33635556	0.53333333	0.65333333
16	2.62675556	0.56	0.72222222
8	2.42231111	0.52606061	0.66666667
16	2.66471111	0.59246377	0.72
8	2.58764444	0.54666667	0.7047619
16	2.75422222	0.61333333	0.77333333
8	2.40897778	0.51407407	0.68
16	2.64142222	0.65333333	0.73333333
8	2.62408889	0.62666667	0.70666667
16	2.37751111	0.55111111	0.65333333
8	2.45324444	0.50666667	0.69333333