shell script for computing summit overlap between two ChIP-Seq experiments
input: bed files of ChIP-Seq summits for two TFs (\$1 and \$2, provided as
arguments to the script). Advised to employ 1-bp summits
sort the input summit files for TF1 and TF2

sort -k1,1 -k2,2n \$1 > \$1.sorted.bed sort -k1,1 -k2,2n \$2 > \$2.sorted.bed

return for each peak summit of TF1 its coordinates, the coordinates of the closest summit of TF2, and its distance (as in bedtools version 2.29).

bedtools closest -a \$1.sorted.bed -b \$2.sorted.bed -d > \$1_\$2_overlap.bed

select from the overlap file output by bedtools only those summits within 150 bps from each other

awk -F "\t" '\$7<=150' \$1 \$2 overlap.bed > \$1 \$2 overlap 150.bed

count the number of co-binding peaks

wc -1 \$1_\$2_overlap_150.bed