1							Host	s (T1	.)										Host	s (T4)											Hosts	(T9)					
		1	2	3	4	5	6	7	8	9	10) 11	1 12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1	3	1	 1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1	4		1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
ាត	5	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
E	6		1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Phage (T1)	7		1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	 0	0	0	0	0	0	0	0	0	0	0	0
문	8		1	1	1	1	1	1	1	1	1	1	1	 0	0	1	0	0	0	0	0	0	0	1	0	 0	0	0	0	0	0	0	0	0	0	0	0
-	9		1	1	1	1	1	1	1	1	1	1	1	 0	ō	1	0	ō	ō	ō	0	ō	0	1	0	 0	0	0	0	0	0	0	õ	0	0	ō	ō
-	10		1	1	1	1	1	1	1	1	1	1	1	 0	õ	1	0	õ	õ	õ	0	õ	0	1	0	 0	õ	0	õ	0	0	0	õ	0	õ	õ	ō
-	11		1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	 0	0	0	0	0	0	0	0	0	0	0	0
-	12		1	1	1	1	1	1	1	1	1	1	1	 ō	õ	1	0	õ	õ	õ	õ	õ	õ	1	ō	 ō	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	ō
-				1	•	-		-	1	1	1	1	1	, v	, ,		Ŭ		, , , , , , , , , , , , , , , , , , ,	Ŭ.,	Ŭ	, ,	Ŭ	-	Ŭ	Ŭ	Ŭ	Ŭ		Ŭ.,	Ŭ.,	Ŭ	Ŭ				Ĩ
-	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	 0	0	0	0	0	0	0	0	0	0	0	0
-	2		1	1	1	1	1	1	1	1	1	1	1	 ō	ŏ	1	ő	õ	õ	õ	ŏ	ŏ	1	1	õ	 õ	ŏ	ŏ	ŏ	ŏ	õ	õ	õ	ŏ	õ	õ	õ
-	3		1	1	1	1	1	1	1	1	1	1	1	 ŏ	ŏ	1	ő	ŏ	ŏ	ŏ	ŏ	ŏ	0	1	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	õ	ŏ	ŏ	õ	ŏ
-			 1	1	1	1	1	1	1	1	1	1	1	 ŏ	ŏ	1	ő	ŏ	ŏ	ŏ	ŏ	ŏ	õ	1	ŏ	 ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
12	5		1	1	î.	1	1	1	1	1	1	1	1	 ŏ	ŏ	1	ő	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	1	ŏ	 ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ő	ŏ	ŏ
- <u>-</u>	6		1	1	1	1	1	1	- 1	- 1	1	- 1	1	 ŏ	ŏ	1	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	1	ŏ	 ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
Phage (T4)	7		 1	1	÷.	1	1	- 1	- 1	- 1	1	- 1	1	 1	1	1	1	1	1	1	1	1	ŏ	1	1	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
	8		1	1	÷.	-	-	- 1	- 1	- 1	- 1	- 1	1	 0	0	-	0	0	0	0	0	6	õ	1	0	 ŏ	ŏ	ŏ	ŏ	ň	ň	ň	ŏ	ň	ŏ	ŏ	ŏ
-	9		1	1	÷.	1	1	-	- 1	- 1	- 1	- 1	1	 ŏ	ŏ	-	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	1	1	ŏ	 ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
-	10		1	1	1	1	1	1	- 1	1	1	- 1	1	 ŏ	ŏ	-	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	1	1	ŏ	 õ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
-	11		1	1	1	1	1	1	- 1	- 1	1	- 1	1	 ŏ	ŏ	-	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	0	1	ŏ	 õ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
-	12		1	1	1	1	1	-	- 1	- 1	-	- 1	1	 ŏ	ŏ	-	ő	ŏ	ŏ	ŏ	ŏ	ő	ő	1	ŏ	 ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	õ	0	ŏ	õ	ŏ
-	12	-	•	1	-	-			1	1	1	1	1	 , U	, v	-		· ·	, v	· ·	· ·	· ·		-	· ·	 · ·				· ·	- U	- U	· ·	· ·		- U	· ·
-	1	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	0	1	1	1	0
-	2		1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	õ	1	1	 1	1	1	1	1	1	1	0	1	1	1	ŏ
-	3		1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	õ	1	0	0	0	0	0	0	0	0	0	0	0	0	ŏ
-	4		 1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	0	õ	1	ŏ	1	1	1	1	1	1	1	õ	1	1	1	ŏ
1			 1	1	1	1	1	1	1	1	1	1	1	 0	0	1	0	0	0	0	0	0	0	1	ŏ	0	0	0	0	1	0	0	0	0	0	0	ŏ
Phage (T9)	6		1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	ŏ	1	1	1	1	ŏ
믪	7		1	1	1	-	-	-	-	1	-	-	1	 1	-	-	-	-	-	-	-	-	0	-	1	1	1	1	1	1	1	1	1	1	1	1	0
- Pha	8		 1	-	-	1	1	1	1	-	-	-	1	 1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	0
-	0			1	1	1	-	-	-	1	-	-	-	 	-	-	1	-	1	1	-	1	-	1		-	1	1	1	1	1	1	1	1	-	-	
-	9		1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	0
-	10		1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
-	11		1	1	1	1	1	1	1	1	1	1	1	 0	0	1	0	0	0	0	0	1	0	1	0	 0	0	0	0	1	0	0	1	0	0	0	0
	12	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0

1 2 3 4 5 6 7 8 9 10 11 12 1 12 1 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Host</th> <th>ts (T</th> <th>1)</th> <th></th> <th>Host</th> <th>s (T4)</th> <th></th> <th>Host</th> <th>s (T9)</th> <th>)</th> <th></th> <th></th> <th></th> <th></th>								Host	ts (T	1)											Host	s (T4)											Host	s (T9))				
1 1		1	L	2	3	4	5	6	7		8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
1 1		1 1	L	1	1	1	1	1	1		1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 1		2 1	L	1	1	1	1	1	1		1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S 1 0 0 0 1		3 1	L	1	1	1	1	1	1		1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{c} 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$		4 1	L	1	1	1	1	1	1		1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 8 \\ 1 \\ 0 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	a	5 1	L	0	0	1	1	0	0		0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 8 \\ 1 \\ 0 \\ 0 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1$	E	6 1	L	1	1	1	1	1	1		1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 1 \\ 0 \end{array} \\ 1 \\ 1 \end{array} \\ 1 \\ 1 \end{array} \\ 1 \\ 1 \end{array} \\ 1 \\ 1$	88	_		0	1	1	0	0	0		1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0	0	0
9 1	훕	_		0	0	1	0	ō	0		1	1	0	1			0	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		_		1	1	1	1	1	1		1	1	0	1			0	0	0	0	ō	0	0	ō	ō	0		 0	0	0	0	ō	0	0	0	0	0	0	-
$ \begin{array}{c} 11 \\ 11 \\ 12 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ $		_		1	1	1	1	1	1		1	1	1	1			0	0	õ	0	õ	õ	0	õ	õ	õ	-	 0	0	õ	õ	õ	0	0	0	0	0	0	0
12 1 0 1 0 1 0 1 0 1 0				1	0	1	0	0	0		1	0	1	0		_	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	-	 õ	õ	õ	õ	õ	õ	0	0	0	0	0	0
I I				1	õ	1	0	õ	ő		1	õ	1	õ	-	-	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	 õ	õ	õ	õ	õ	õ	0	0	õ	õ	õ	0
1 1	-			-		-	-				-																							-					
2 1		1 1		1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				1	1	1	1	1									1	1	1	1	1	1	1	1	1	1	_		-	õ	õ	õ	õ	0	0	õ	-	-	_
$ \left(\begin{array}{c} 4\\ 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 $				1	1	1	1	1	1	_	1	1	-			-	1	1	1	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	-		
E 5 1		_		î.	÷.	1	1	- 1	1		1	1	1	1		-	1	-	1	1	- 1	1	1	÷.	÷.	1	_	 -	1	ŏ	ŏ	ŏ	ŏ	ő	ő	ŏ	ŏ	-	-
$ \begin{array}{c} 8 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	Ť	-		î.	÷.	1	÷.	1	1		1	1	i.	1	_	_	1	÷	1	1	1	1	1	1	÷.	1	_		0	ŏ	ŏ	ŏ	ŏ	ő	ő	ŏ	1		
$ \begin{array}{c} 8 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	<u>e</u>	_		1	1	-	4	- 1	-		-	1	-	-	_	-	-	4	-	-	-	-	-	-	-	-	_	 	-	-		0	0	0	-	-		-	
$ \begin{array}{c} 8 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$	ř.			1	1	1	-	- 1	1		1	1	1	1	-	 1	1	4	1	1	1	1	1	1	1	1	-		ő	ŏ	ŏ	ŏ	ő	ő	0	ő	-		_
9 1		-		1	1	1	-	- 1	1		1	1	1	1		_	1	4	1	1	1	1	1	1	1	1	_		~	ŏ	~	ŏ	~	0	0	0	ő	0	
10 1		-		1	1	-	-	- 1	-		1	1	1	1	-	 -	1	-	1	-	1	1	1	1	1	1	_	 ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ő	ő	ő	ŏ	ő	ŏ
11 1				1	1	1	-	- 1	-		1	1	1	1	1	1	1	4	1	-	1	1	1	1	1	1	-	 	~		~	~	~	0	0	0	0	0	0
12 1				1	1	1	-	- 1	1		1	1	1	1	1	 1	1	4	0	1	1	0					1	 ŏ	ŏ	ŏ	ŏ	ŏ	ő	ő	0	ő	ő	ő	0
1 0				1	1	1	-	- 1	1		1	1	1	1	1	1	1	4	0	1	1	0	ŏ	ŏ	ŏ	ő	1	 ŏ	~	ŏ	~	ŏ	~	0	0	ő	ő	0	0
2 0	- 1	4		1	1	1	-	1	1		1	-	-	1	-	1	-	-		-	-						-							0		•			
2 0		1 (0	0	0	0	0	0		0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	0	1
3 0 0 0 0 0 0 1 1 1 1 1 1 1 1 0		_		0	0	0	0	0	0		0	0	0	0			1	1	1	1	1	1	1	1	1	1	_	 _	-	1	1	1	0	0	0	-	_		-
4 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1		-		0	0	0	0	ő	0		0	0	0	0		_	1	1	1	1	1	1	1	1	1	1	_	 1	0	0	0	0	0	0	0	0	0	-	
		-		0	0	0	0	ő	0		0	0	0		-	_	1	1	1	1	1	1	1	1	1	1	_	 1	0	0	0	0	ő	0	0	ő	0	× .	-
g 6000000000000000000000000000000000000		-		0	0	1	0	0	0		0	0	0	-		_	-	-	-	-	1	-	-	1	-	1	_	 0	0	0	0	0	0	0	<u> </u>	0	-		_
	£ –	_		0	0	1	0	0	0		0	0	0			-	-	-	1	-	1	1	-	1	1	1		 	-	-	-	-	-	-	_	_			
	8	-		0	0	0	0	0	0		0	0	0	0	-	_	1	1	1	1	1	1	1	1	1	1	_		0	0	0	0	0	0	0	0		-	_
\vec{x} 7000000000000000000000000000000000000	E -	_		0	0	0	0	0	0		0	0	0	0		-	1	1	1	1	1	1	1	1	1	1			0	0	0	0	0	0	0	0	0		-
				0	0	0	0	0	0		0	0	0	0	-		0	0	0	0	0	0	0	0	0	0	-	 0	0	0	0	0	0	0	0	0	0	× .	0
900000000000000000000000000000000000000				0	0	0	0	0	0		0	0	0	0	-		0	0	0	0	0	0	0	0	0	0	-	 0	0	0	0	0	0	0	0	0	0	× .	0
10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				0	0	0	0	0	0		0	0	0	0	-		0	0	0	0	0	0	0	0	0	0	_	 0	0	0	0	0	0	0	0	0	0		-
11 0 0 0 0 1 0 1 1 1 0 0 0 0 1 1 1 0 0 0 0 1 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 0 0 1 0 1 1 1 0 0 0 0 0 1 0 1 1 1 0 0 0 0 0 1 0 1 1 1 0 0 0 0 0 0 1 0 1 1 1 0 0 0 0 0 1 0 1 1 1 0 0 0 0 0 1 1 1 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 1 1				× .	0	0	0	0	0		0	0	× .				0	1	0	1	1	0	0	0	0		-	 	0	0	0	0	1	0	1	1	× .		
12 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 1 0 1 1 0 0 1 1 0 0 1 0 1 1 0 0 1 0 1 0					0	0	0	0	0		0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	 0	0	0	0	0	1	0	1	1	0	0	1

								Host	ts (T1	.)										Host	s (T4)											Hosts	s (T9)					
		1		2	3	4	5	6	7	8	9	10	0 11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
	1	1		1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	1	L	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	1	L	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	1	L	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	7 5	1	L	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	- 6	1	L	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	1	L	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	8	1	L	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	1	L	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	1	L	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	1		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	1		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			Т																																			
	1	0)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0)	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5 5	0)	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	6	0)	0	0	0	0	0	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7	1	L	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8	1		1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	1		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10)	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11)	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	0)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0	0	0
	_																																					_
	1			0	0	0	0	1	0	0	0	0	0	1	 0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	1		1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	3	1	L	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	- 4)	0	1	0	0	1	0	0	0	0	0	1	 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	5 5	1		1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
total and the	6			1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8 7	_		1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1	8	1		1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	1		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	1	0	0	1	0	1	1	1	1	1	1	0	1	0	1	1
	10	1		1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	1		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	0	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
	12	1		1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
																						-	_	-														

							Host	s (T1)										Host	s (T4)											Hosts	s (T9)					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	- 4	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F	5	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phage (T1)	6	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
i age	7	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ᅕ	8	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ŧ	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phage (T4)	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
fa	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	10	0	0	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	11	0	0	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	12	1	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	0	0	0	0	1	0	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1
	2	1	0	1	0	0	1	1	0	1	0	1	1	0	0	0	0	1	1	0	1	1	0	0	1	1	0	1	1	1	0	1	1	1	1	1	1
	3	1	0	1	0	1	1	0	0	0	0	1	1	0	0	1	0	1	0	0	1	1	0	0	1	1	0	1	1	1	0	1	1	1	1	1	1
	4	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0
6	5	1	0	1	0	1	1	1	1	1	1	1	1	 0	0	0	0	1	1	0	0	0	1	0	1	0	0	1	1	1	0	1	1	1	1	1	1
Phage (T9)	6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
88	7	ŏ	0	0	1	0	0	0	0	0	0	ŏ	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1				0
F	8	1	0	1	0	1	1	1	1	1	1	1	1	 1	1	-	1	1	1	1	-	0	0	-	1	0	0	1	1	1	1	1	1	1	_		1
	_	1	0	1	0	1	1	1	1	1	1	1		 -	1	1	1	1	1	-	-	1	0	-				-	1	-	-	1	-	-	-		
	9	0	0	0	0	0	0	0	0	0	0	0	0	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	1	0	0	1	0	0	0	0	0
	10	0	0	1	1	0	0	0	0	0	0	0	0	 1	1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	1	0	1	1	0	1
	11	0	0	0	1	1	1	1	1	1	1	1	0	 1	1	0	0	1	0	0	1	1	1	1	1	 0	0	0	1	1	1	1	1	1	1	1	0
	12	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	1	1	0

							Host	s (T1	.)										Host	s (T4)											Hosts	; (T9)					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
	1		1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-	4	0	0	0	1	0	0	0	0	1	1	0	0	1	0	0	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ភ	5	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Phage (T1)	6	1	1	1	1	1	1	1	1	1	1	1	1	 1	0	0	1	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
age	7	1	1	1	1	1	1	1	1	1	1	1	1	 1	0	0	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
윤	8	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-	9	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
-	10	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
-	11	0	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
-	12	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
														_							_																
	1	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-	2	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
-	3	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	0	0	0	0	0	0
-	4	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	ō	0	0	0	0	0	0
₹.	5	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 0	ō	õ	õ	0	õ	õ	0	0	0	0	0
Phage (T4)	6	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	0	0	0	0	0	0
page 1	7	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 0	0	ō	0	0	ō	ō	0	0	0	0	0
•	8	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 0	õ	õ	õ	0	õ	õ	0	õ	0	0	0
-	9	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ
-	10	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 0	0	õ	0	0	õ	õ	0	0	0	0	0
-	11	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 0	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	ō
_	12	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ
		-	-	-	-	-	-	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-								- T	- T		Ŭ	
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	0	0	0	0	0	0
-	2	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 õ	0	0	0	0	0	0	0	0	0	0	õ
	3	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 õ	0	0	0	0	0	0	0	0	0	0	õ
-	4	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 ŏ	0	0	0	0	0	0	0	0	ŏ	0	ŏ
a	5	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ	õ
Phage (T9)	6	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	ŏ	õ	0	0	0	õ	õ	0	õ	ŏ	0	ŏ
80	7	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	ŏ	0	0	0	0	0	0	0	0	ŏ	0	ŏ
윤	8	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 ŏ	0	0	0	0	0	0	0	0	ŏ	0	ŏ
-	9	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 ŏ	0	0	0	0	0	0	0	0	0	0	ŏ
-	10	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 ŏ	õ	õ	ő	ő	ő	ő	0	0	ŏ	õ	ŏ
-		1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	 õ	0	0	0	0	0	0	0	0	0	0	õ
-	12	_	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1		 õ	0	0	0	0	0	0	0	0	0	0	0
Der				1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0

1							Host	s (T1))										Hosts	5 (T4)												Hosts	(T9)					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		1	2	3	4	5	6	7	8	9	10	11	12
	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
1	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
1	3	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
1	4	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
1-	5	1	÷.	- 1	-	-	-	- 1	- 1	1	- 1	- 1	1	 ŏ	ŏ	1	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ		ŏ	ŏ	ŏ	ň	ň	ň	ň	ň	ň	ň	ŏ	ŏ
E	6	1	- 1	1	-	1	-	1	1	-	-	1	1	 0	0	0	0	0	0	0	0	0	0	0	0		ŏ	ŏ	š	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ő	ŏ
8	7	1	1	1	-	-	-	1	-	1	-	-	1	 õ	~	~	~	~	~	~	~	~	~	~	0		0	~	~	~	~	0	0	~	~	0	0	0
Phage (T1)	8	_	1	1	-	1	-	1	-	1	-	-	_	 0	0	0		0	0	0	~	0	0	0	0		0	~	~		~	0	0	~		0	0	0
		1	1	1	1	1	1	1	1	1	1	1	1		-	-	0	~	0	-	0	-			_	-		0	0		0		0	0			0	
	9	1	1	1	1	1	1	1	1	1	1	1	1	 0	0	1	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
	10	1	1	1	1	1	1	1	1	1	1	1	1	 0	0	1	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
	11	1	1	1	1	1	1	1	1	1	1	1	1	 0	0	1	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
-	12	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
	1	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
-	- 4	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	0	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
Phage (T4)	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
86	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
- Fe	- 7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
1	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
1	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1		0	0	0	0	0	0	0	0	0	0	0	0
1	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
1	11	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
-	1	0	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	0		0	0	0	0	0	0	0	0	0	0	0	0
1	2	0	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	0	0	1	1	1	0	1	0		0	0	0	0	0	0	0	0	0	0	0	0
1	3	1	0	1	1	1	1	1	1	1	1	1	1	ŏ	0	0	1	0	0	1	0	0	0	0	ŏ		ŏ	0	0	0	0	0	0	0	0	0	ŏ	ŏ
1	4	0	1	1	1	1	1	1	1	1	1	1	0	ŏ	1	0	1	1	õ	0	0	0	õ	õ	ŏ		ŏ	õ	0	0	õ	õ	õ	0	õ	õ	0	ŏ
-	5	ŏ	1	1	1	1	1	1	1	1	1	1	1	ŏ	1	1	1	0	0	1	0	ő	0	0	1		ŏ	ŏ	0	ő	ő	0	0	0	0	0	ŏ	ŏ
Ē	6	ŏ	1	0	0	1	1	1	1	1	1	1	0	ŏ	1	1	1	1	õ	1	0	0	õ	0	1		ŏ	õ	0	0	õ	õ	0	0	õ	õ	ŏ	ŏ
Phage (T9)	7	1	0	0	0	1	1	1	1	1	1	0	1	 ŏ	1	0	1	1	0	0	ő	ő	ŏ	0	0		ŏ	ő	0	0	0	0	0	0	0	0	ŏ	ŏ
Pha	8	0		0	0	-	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
	9	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
		1	1	1	1	1	1	1	-	1	1	1		 _	1	1	1	1	1	1	1	1	1	-			-	0	0	0	0	0	0	0	0	0	0	-
	10	1	0	0	1	1	1	1	1	1	1	1	0	 0	1	1	1	1	1	1	0	0	0	1	0		0	0	0	0	0	0	0	0	0	0	0	0
-	11	1	0	0	0	0	0	0	0	1	0	1	0	 0	0	0	0	0	1	1	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0
	12	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0

							Host	s (T1)										Host	s (T4))										Host	s (T9)					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	2	1	1	1	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	3	1	1	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ា	5	1	1	1	1	1	1	1	1	1	1	1	1	 0	0	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0	0	0
E	6	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0	0	0
Phage (T1)	7	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
舌	8	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9	1	1	1	1	1	1	1	1	1	1	1	1	 0	0	0	õ	0	0	0	0	0	0	0	0	 0	0	0	0	0	0	0	0	0	0	0	0
	10	1	1	1	1	1	1	1	1	1	1	1	1	 õ	õ	ŏ	õ	õ	õ	õ	õ	õ	õ	õ	õ	 õ	õ	õ	õ	ŏ	õ	õ	õ	õ	õ	õ	õ
	11	1	0	0	1	0	0	0	0	0	0	1	0	 ŏ	ŏ	ŏ	ŏ	ŏ	ő	õ	ŏ	õ	ŏ	ŏ	ŏ	 ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	õ	ŏ	ŏ	õ	ő	ŏ
	12	1	1	1	1	1	1	1	1	1	ň	1	1	 ŏ	ŏ	ŏ	ŏ	ň	ň	ň	ŏ	ň	ŏ	ŏ	ŏ	 ŏ	ň	ŏ	ŏ	ň	ň	ň	ň	ň	ň	ŏ	ŏ
	16							· *		1				×	, ×	, v	, v	, č	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	×	- ×	×	, v	- ×	, v	, v	Ŭ	Ŭ		Ŭ			
-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
	2	1	1	1	1	1	1	1	-	-	-	1	1	 1	1	- 1	-	1	1	1	1	1	ō	1	1	 ŏ	ő	ő	~	~	0	õ	0	0	1	õ	ŏ
		1	1	1	1	1	1	1	1	1	1	1	1	 _	-	-	-	-	-	-	-	-	_	-		 -	0	0	0	0	0	-	0	-	-		
	3	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
	4	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
E	5	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
Phage (T4)	6	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
둡	7	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
	8	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
	9	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
	10	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
	11	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	0	0	0	0	0	0	0	1	0	0
	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0
																																					_
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	1	1	1	1
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	0	1	1	1	1	1	1	1
	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	0	1	1	0	0
	- 4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	0	0	1	1	1	1
6	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	1	1
Phage (T9)	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	0	1	1	1	1
age	7	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	0	0	1	1	1	1
문	8	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 1	ō	1	1	ō	1	0	0	1	1	1	1
	9	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0
	10	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	ő	1	1	 ŏ	ŏ	õ	ő	ŏ	ŏ	ŏ	ŏ	õ	1	õ	0
	11	-	1	1	1	1	1	1	1	-	1	1	1	 1	1	1	1	1	1	1	-	1	0	1	1	0	0	0	0	0	0	0	0	0	1	0	0
	12	1	1	1	1	1	1	1	1	1	1	1	1	 _	1	1	1	1	1	1	1	1	0	1	1	 0	0	1	0	0	0	0	0	1	1	0	0
	12	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	0	1	1	 0	0	1	0	0	0	0	0	1	1	0	0

							Host	s (T1)										Host	s (T4)												Host	s (T9)					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12		1	2	3	4	5	6	7	8	9	10	11	12
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
1	3	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
1	4	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
12		1	- î	1	1	1	1	1	1	1	1	1	1	 1	÷.	1	1	1	1	1	1	1	1	1	1		ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	õ
Phage (T1)	6	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		ŏ	ŏ	õ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ŏ
8	7	1	-	1	1	1	1	1	-	1	-	-	1	 1	- 1	-	-	1	1	1	1	1	1	1	1		ŏ	ŏ	ŏ	ŏ	ŏ	ŏ	ő	ŏ	ŏ	ŏ	õ	0
Pha	8	1	1	1	1	1	1	1	-	1	1	-	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	~	~	~	~	~	~	~	~	0	0	0
	- v	1	-	1	1	1	1	1	-	-	1	-	_		1	1	1	1	1	1	1	-	1	1				~	~	0	~	0	0	0	0	0	0	0
	9	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0		
	10	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
	11	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
-	12	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
-																																				_		
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	1	1	1	1	1	0	1	1	1	1
	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	1	0	0	0	0	0	1	0	1
	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	1	0	0	0	0	0
	- 4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	1	1
E	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	1	0	1	0	0	1	0	1
Phage (T4)	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		0	0	1	1	1	1	1	0	0	0	1	1
Ē	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	0	1	0	0	0	0	0	0	0	1	0
1	8	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		0	0	0	0	0	0	0	0	0	0	0	0
	9	-	-	-	-	-	-	-	-	-	-	-	1	 1	-	-	-	-	-	-	-	-	-	-	1	-	0	0	0	0	0	1	0	0	0	0	0	1
	10	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		1	ŏ		1	ŏ	0	1	0		1	ŏ	1
	11	1	-	1	1	1	1	1	1	-	1	-	1	 1	1	1	1	1	1	1	1	1	1	1	1		1		~	-	~	0	-	0	~	0	0	1
-	12	1	-	1	1	1	1	1	-	-	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		1	0	0	1	0	0	1	0	0	1	0	1
-	12	1	1	1	-	-	1	-	1	1		1		 1			1	1	1	1	-	1		1	1		-	•		-	0		1		0	-	0	-
-																										-												
	1	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1
	2	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
	3	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
	4	1	1	1	1	1	1	1	1	1	1	1	1	 1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
Phage (T9)	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
lag	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
2	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
1	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
1	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
1	11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
1	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1
-	1.													 -						-	-			-	-		-		-	-					-	-	-	-