# 1006 ×××××××

# **Problem Description**

Serika		
Serika		
n	$1,2,3,\cdots,n$	$i \ 1 \leq$
$i \leq n$	$k_i \qquad \qquad p_{i,1}, p_{i,2}, p_{i,3}, \cdots,$	$p_{i,k_i}$
	$i \hspace{0.1cm} 1 \leq i \leq n \hspace{1.5cm} j \hspace{0.1cm} 1 \leq j \leq$	$k_i \qquad a_{i,j} = j$
	$p_{i,a_{i,j}}$ $1 \leq i \leq n$ $1 \leq j \leq k_i$	$ imes p_{i,a_{i,\max(j-1,1)}}$
	$p_{i,a_{i,\min(j+1,k_i)}}$	$1  i, \omega_{i, \max(j-1, 1)}$
-	$i \ 1 \leq i \leq n$	$i,\!a_{i,1}$
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School	$\leftarrow$ $\rightarrow$ $\downarrow$	
		7
-	← × × ×	l
	$\rightarrow$ $\times$ $\times$	r
-	$\downarrow$ $\times$ $\times$	d

 $\boldsymbol{q}$ 

l, r, d

xor, sum

### **Input**

#### $\times$ $\times$ $\times$ $\times$ $\times$ $\times$ $\times$ $\times$ $\times$

$$T \ 1 \leq T \leq 12$$

$$n+q+1$$

$$n, q, s \ 1 \le n, q \le 4 \times 10^4 \ 1 \le s \le n$$

$$n \qquad i+1 \;\; 1 \leq i \leq n \qquad \qquad k_i \;\; 0 \leq k_i < n \qquad \qquad i$$

$$k_i \ 0 \leq k_i < n$$

$$k_i$$

$$k_i \qquad p_{i,1}, p_{i,2}, p_{i,3}, \cdots, p_{i,k_i} \ \ 1 \leq$$

$$p_{i,1},p_{i,2},p_{i,3},\cdots,p_{i,k_i}\leq n$$

 $\boldsymbol{q}$ 

$$l, r, d \ \ 0 \le l, r, d \le l + r + d \le 4.5 \times 10^4$$

### Output

xor, sum

xor, sum

$$xor = \oplus_{i=1}^q ans_i imes i$$

$$sum = \sum_{i=1}^q ans_i imes i$$

 $ans_i$  i  $\oplus$ 

## Sample Input

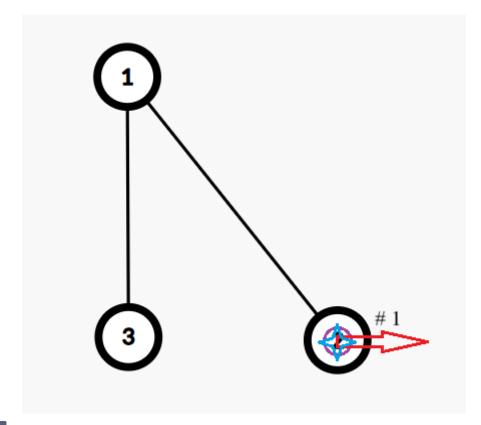
```
2
3 3 2
2 3 2
0
0
0 1 0
1 0 1
1 1 1
11 4 4
0
0
0
4 6 5 10 7
1 11
1 1
2 9 8
0
0
2 3 2
0
0 0 2
0 721 3
0 1 1
0 721 1
```

# Hint

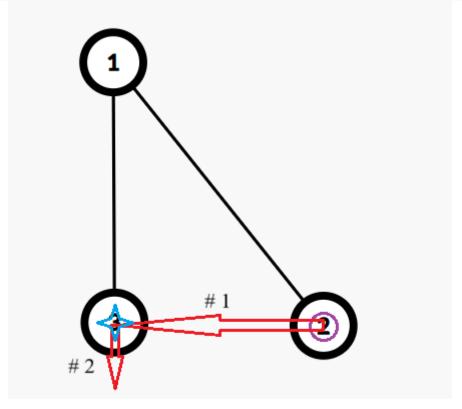
3 3

2

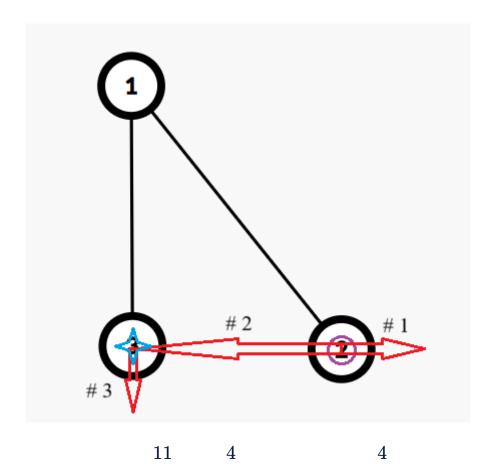
$$l=0, r=1, d=0$$
  $ightarrow$  2



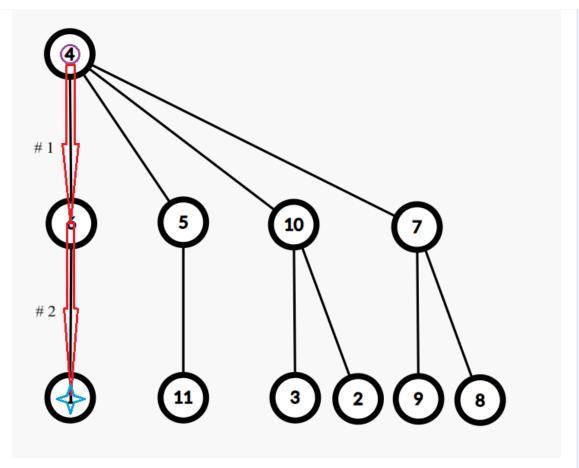
$$l=1, r=0, d=1$$
  $\leftarrow \downarrow$   $3$ 



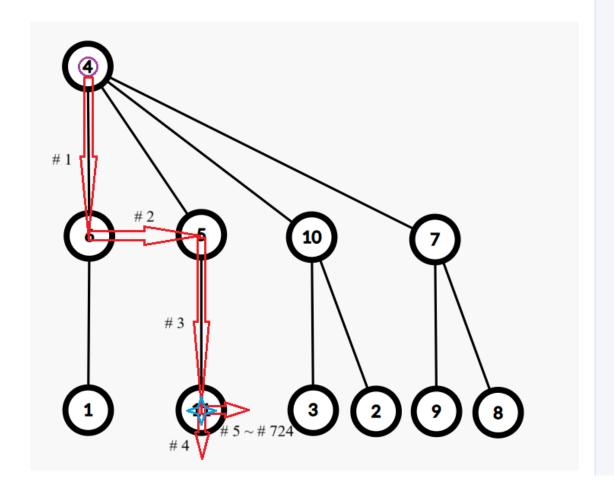
l=1, r=1, d=1  $\rightarrow \leftarrow \downarrow$ 



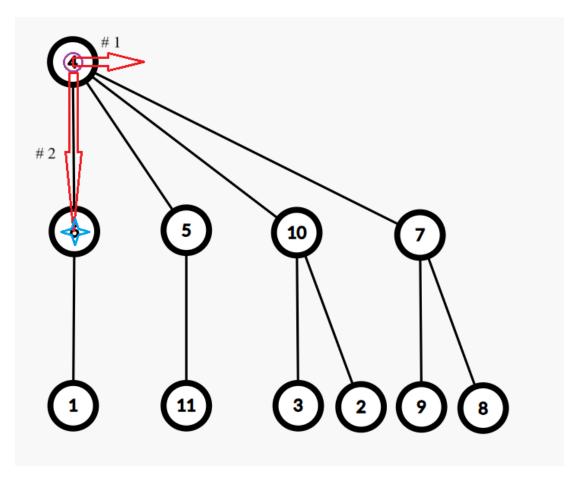
l=0, r=0, d=2  $\downarrow\downarrow$ 



l=0, r=721, d=3  $\downarrow \rightarrow \downarrow \downarrow$  720  $\rightarrow$  11



$$l=0, r=1, d=1$$
  $ightarrow \downarrow$ 



$$l = 0, r = 721, d = 1$$
 719

$$\downarrow$$
  $\rightarrow$   $\rightarrow$ 

