# Forest Path

Input file: standard input
Output file: standard output

Time limit: 2 seconds

Memory limit: 1024 megabytes

Please refer to the statements in the attachment files

#### Input

Please refer to the statements in the attachment files

### Output

Please refer to the statements in the attachment files

## Example

standard input	standard output
1	7 4
7	
1 2	
1 3	
2 4	
2 5	
3 6	
3 7	
10 10 10 11 15 15 11	

#### Note

Please refer to the statements in the attachment files