Problem 3. Party (2 points)

Timelimit: 1 second

Problem Statement

There are n students attending the class that Professor Octopus teaches. He wants to invite as many of them as possible for a party at his place, subject to two constraints:
each invitee should have

1. at least k other invitees whom he knows, and
2. at least k other invitees whom he does not know.

Write a program that takes known relationship between students, and outputs best selection of invitees.

Input Statement

First line contains t which is the number of test cases.
First line of each test case contains two integers n and k ($0 \leq k \leq n$, $1 \leq n \leq 1,000$).
Following n lines contains n by n matrix M which represents known relationship between students.
We denotes the value on j-th number of i-th line as M_{ij}.
M_{ij} is 1 if i-th student and j-th student know each other, and 0 otherwise.
M_{ii} is always 0.

Output Statement

For each test case, output the number of invitees for the best selection.

Input Example

```
2
5 1
0 1 1 1 1
1 0 1 0 1
1 1 0 1 0
1 0 1 0 1
1 1 0 1 0
10 3
0 0 1 0 0 1 0 0 0 1
0 0 0 1 0 0 0 1 1 0
1 0 0 1 0 0 0 0 1 0
0 1 1 0 1 0 0 1 0 0
0 0 0 1 0 1 0 0 1 0
1 0 0 0 1 0 1 0 0 0
0 0 0 0 0 1 0 0 0 1
0 1 0 1 0 0 0 0 1 0
0 1 1 0 1 0 0 1 0 1
1 0 0 0 0 0 1 0 1 0
```

Output Example

```
4 // student 2,3,4,5
0
```