

## D: Combination Lock

You are trying to access a secret room in a high-security building, but the room's door is locked with a number of combination locks. Each lock has a number of wheels  $n$ , where each wheel has a highest digit  $d$ . The correct combination for each lock is a sequence of  $n$  digits consisting of the numbers 0 up to and including  $d$ . Write a program that outputs all possible combinations for each given lock, in numerically increasing order of the combinations.

### Input

The first line in the test data file contains the number of test cases. Each test case consists of an integer  $n$ , the number of wheels ( $1 \leq n \leq 5$ ), and the integer  $d$ , the highest digit on the wheel ( $0 \leq d \leq 9$ ), separated by a space.

### Output

For each test case, output all possible combinations for the lock in numerically increasing order. Each combination should be on a separate line.

### Sample Input

```
2
1 6
2 1
```

### Sample Output

```
0
1
2
3
4
5
6
00
01
10
11
```