K NUMBERS

Problem statement:

You are given N numbers from 1 to N. Now, your task is to choose some numbers from the N numbers (including 1 & N) such that no two numbers are **consecutive**. As this is easy, you are given an extra task. You have to definitely choose K numbers which are given. Find the maximum number of numbers that you can choose in such a way.

Input:

The first line has an integer T, the number of test cases.

Then for each test case, the first line has two integers N and K.

Then the next line has K numbers which you should definitely choose.

Output:

For each test case, print the maximum number of numbers that you can choose.

Constraints:

$$2 \le N \le 2 \times 10^{6}$$

$$1 \le K \le N/2$$

$$1 \le X[1...K] \le N$$

Sample input:

1

82

62

Sample output: