

Project Euler #8: Largest product in a series

This problem is a programming version of [Problem 8](#) from [projecteuler.net](#)

Find the greatest product of K consecutive digits in the N digit number.

Input Format

First line contains T that denotes the number of test cases.

First line of each test case will contain two integers N & K .

Second line of each test case will contain a N digit integer.

Constraints

- $1 \leq T \leq 100$
- $1 \leq K \leq 7$
- $K \leq N \leq 1000$

Output Format

Print the required answer for each test case.

Sample Input

```
2
10 5
3675356291
10 5
2709360626
```

Sample Output

```
3150
0
```

Explanation

- For **3675356291** and selecting $K = 5$ consecutive digits, we have **36753**, **67535**, **75356**, **53562**, **35629** and **56291**. Where $6 \times 7 \times 5 \times 3 \times 5$ gives maximum product as **3150**
- For **2709360626**, **0** lies in all selection of **5** consecutive digits hence maximum product remains **0**