For this problem, you will write a program that takes a string of characters, \( S \), and creates a new string of characters, \( T \), with each character repeated \( R \) times. That is, \( R \) copies of the first character of \( S \), followed by \( R \) copies of the second character of \( S \), and so on. Valid characters for \( S \) are the QR Code “alphanumeric” characters:

0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ$%*+-./:

**Input**

The first line of input contains a single integer \( P \), \((1 \leq P \leq 1000)\), which is the number of data sets that follow. Each data set is a single line of input consisting of the data set number \( N \), followed by a space, followed by the repeat count \( R \), \((1 \leq R \leq 8)\), followed by a space, followed by the string \( S \). The length of string \( S \) will always be at least one and no more than 20 characters. All the characters will be from the set of characters shown above.

**Output**

For each data set there is one line of output. It contains the data set number, \( N \), followed by a single space which is then followed by the new string \( T \), which is made of each character in \( S \) repeated \( R \) times.

**Sample Input**

2
1 3 ABC
2 5 /HTP

**Sample Output**

1 AAABBBCCC
2 /////HHHHHTTTTTPPPPP