MEDIUM

Max Score: 40 Points

Get value in decimal

You are given a string str and a base b, Your task is to covert the string to its respective number in decimal.

Input Format

The first line of input contains a string str.

The second line of input contains a single integer base b.

Output Format

Return the value of string into its respective decimal number.

Example 1

Input

64
8

Output

52

Explanation

The value of 52 in base 8 is 64.

Example 2

Input

111001
2

Output

57

Explanation

The value of 57 in base 2 is 111001.

Constraints

1 <= |str| <= 100

b - {2,8,16}

Math

My code

```java
// in java
import java.util.*;

  public class Main{

  public static void main(String[] args) {
      Scanner scn = new Scanner(System.in);
      String s=scn.nextLine();
      int b = scn.nextInt();
```

```java
    int dn = solve(s, b);
    System.out.println(dn);
}
static int solve(String str,int b)
{
    // Your code here
            int multiplier = 0, ans_num = 0;
  for(int i=0;i<str.length();i++) {
            char c=str.charAt(str.length()-1-i);
    int r = Character.getNumericValue(c);

    ans_num += r * Math.pow(b, multiplier);
    multiplier++;
  }
  return ans_num;

 }
}
```