**Print the Kth Digit**

[maths](http://www.practice.geeksforgeeks.org/tag-page.php?tag=maths&isCmp=0)[Flipkart](http://www.practice.geeksforgeeks.org/tag-page.php?tag=Flipkart&isCmp=1)

Given two numbers a and b, find kth digit from right of a^b.

**Input:**

The first line of the input contains T denoting the number of testcases.Each of the next T lines contains three space separated positive integers denoting the value of a , b and k respectively.

**Output:**

For each testcase, output the kth digit from right of a^b in new line.

**Constraints:**

1<=T<=100  
1<=a , b <=15  
1<=k<=|totaldigits in a^b|

**Example:**

Input:  
2  
3 3 1  
5 2 2

Output:  
7  
2

\*\*For More Examples Use Expected Output\*\*

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=302>

t = int(raw\_input())

for i in range(0,t):

input = raw\_input().split(*' '*)

a = int(input[0])

b = int(input[1])

k = int(input[2])

#print str(a) + " " + str(b) + " " + str(k)

ab = a\*\*b

s = str(ab)

i = len(s)-1

cont = 1

while i >= 0:

if cont == k:

print s[i]

break

cont+=1

i-=1