**Numbers containing 0's from 1 to N**

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

Efficiently count how many integers from 1 to N contains 0's as a digit.

**Input:**  
First line of the input contains the number of test cases T. Each line of test case contains the integer N.  
  
**Output:**  
Number of integers that contain 0 as a digit are printed.  
  
**Constraints:**  
1 <=T<= 100  
1 <=N<= 10000  
  
**Example:  
Input:**  
3  
100  
987  
20

**Output:**  
10  
179  
2

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

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=479>

#include <iostream>

#include <stdio.h>

#include <math.h>

#include <vector>

using namespace std;

int main() {

    int T;

    scanf("%d", &T);

    while(T--) {

        int N;

        scanf("%d", &N);

        int nums\_con\_cero =0;

        for(int i=1; i<=N; i++) {

            int c = i;

            while(c > 0) {

               if(c %10==0) {

                   nums\_con\_cero ++;

                   break;

                }

               c/=10;

            }

        }

        printf("%d ", nums\_con\_cero);

        printf("**\n**");

    }

  system("pause");

 return 0;

}