**Fascinating Number**

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

**Check whether a number is a fascinating number or not.**  
**Fascinating Number**: When a number( 3 digit or more) is multiplied by 2 and 3 ,and when both these products are concatenated with the original number all digits from 1 to 9 are present exactly once, regardless of the number of zeroes.

**Input**

First line contains number of test cases T. Then following T lines contains an integer N.

**Output**

Output "Fascinating" if given number is fascinating else "Not Fascinating" . And print "Number should be atleast three digits" when user enters digits less than three.

**Constraints:**

1<=T<=100  
1<=N<=1000

**Example:**

**Input:**  
3  
192  
853  
76

**Output:**  
Fascinating  
Not Fascinating  
Number should be atleast three digits

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

<http://www.practice.geeksforgeeks.org/problem-page.php?pid=369>

#include <iostream>

#include <stdio.h>

#include <vector>

#include <map>

using namespace std;

*/\**

*char buffer[100];*

*std::string to\_string(int k){*

*sprintf(buffer, "%d", k);*

*return std::string(buffer);*

*}\*/*

int main() {

    int T;

    scanf("%d", &T);

    while(T--) {

      int N;

      scanf("%d", &N);

      if(to\_string(N).length() < 3) {

         printf("Number should be atleast three digits**\n**");

         continue;

      }

      std::string num = "";

       num +=  to\_string(N) + to\_string(N \* 2) + to\_string(N \* 3);

         //cout << num << endl;

        std::map<char, int> m;

        for(int i =0; i < num.length(); i++ ) {

            m[num[i]]++;

        }

*/\**

*for(std::map<char, int>::iterator it = m.begin(); it != m.end() ; it++) {*

*printf("%c -> %d\n", it->first, it->second);*

*}\*/*

        bool es\_fac=true;

        //printf("\n valores:\n");

        for(int i = '1'; i <= '9'; i++) {

          //  cout << i - '0' << " " << m[ i] << endl;

            if(m[i] != 1) {

                   es\_fac = false;

                   break;

            }

        }

        if(es\_fac) {

           printf( "Fascinating" );

        }else{

            printf( "Not Fascinating");

        }

        printf( "**\n**" );

    }

    return 0;

}