**Question 1**

**A Barua number is a number which consists of only zeroes and ones and has only one 1. Barua number will start with 1. Given numbers, find out the multiplication of the numbers. Note: The input may contain one decimal number and all other Barua numbers. (Assume that each number is very large and total number of values give is also very large)**

#include<iostream>

using namespace std;

int main()

{

int n, count=0; cin>>n;

long long int a[n];

for(int i=0; i<n; i++)

cin>>a[i];

for(int i=0; i<n; i++)

{

while(a[i]%10==0)

{

count++;

a[i]/=10;

}

}

long long int prod=1;

for(int i=0; i<n; i++)

prod\*=a[i];

cout<<prod;

for(int i=1; i<=count; i++)

cout<<0;

}

**Question 2**

**Implement push, pop and find the minimum element in a stack in O(1) time complexity**

#include<iostream>

#include<stack>

using namespace std;

int main()

{

int t; cin>>t;

int n; cin>>n;

stack<int> s;

stack<int> maxs;

s.push(n);

maxs.push(n);

t--;

while(t--)

{

int x; cin>>x;

s.push(x);

if(s.top()>maxs.top())

maxs.push(x);

}

cout<<"The maximum value is "<<maxs.top();

}