**Q3. Maximum product subarray**

**Code:-**

#include<bits/stdc++.h>

#define ll long long

#define pb push\_back

#define pob pop\_back

#define f first

#define s second

#define yes cout<<"YES\n"

#define no cout<<"NO\n"

#define fo(i,a,b) for(ll i=a;i<=b;i++)

#define revfo(i,a,b) for(ll i=a;i>=b;i--)

#define all(s) s.begin(),s.end()

#define printSet(s1) for(auto it=s1.begin();it!=s1.end();it++) cout<<\*it<<" ";

using namespace std;

ll n;

ll mod=1e9+7;

int main(){

ios::sync\_with\_stdio(false); cin.tie(NULL); cout.tie(NULL);

cin>>n;

vector<ll> nums;

fo(i,0,n-1){

ll a;

cin>>a;

nums.pb(a);

}

int maxi=INT\_MIN;

int prd=1;

for(int i=0;i<nums.size();i++){

prd=prd%mod\*nums[i]%mod;

maxi=max(maxi,prd);

}

cout<<maxi;

}