Q3. Maximum product subarray

Code:-

```cpp
#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){
```

```cpp
        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;

}
```