Stock Buy Sell to Maximize Profit

#include<iostream>

using namespace std;

int main()

{

int a[10],n,buy=0,sell=-1;

cout<<"Enter the number of elements: ";

cin>>n;

cout<<"Enter the array elements: ";

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

cin>>a[i];

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

{

if(buy>a[i] || a[i]<a[i-1] || i == n-1)

{

sell = i-1;

if(i == n-1)

sell = i;

if(buy != sell)

{

cout<<"buy on day "<<buy<<" and sell on "<<sell<<endl;

}

buy = i;

sell = i;

}

}

return 0;

}