A

```
# include < bits / stdc++.h >
using namespace std;
int main()
{
int n, a, counter = 0; cin >> n; int mas [2001] = {0}; float san;
for (int i = 0; i < n; i < n; i++)
{
scanf("%d", &a); mas[a+1000]++;
}
for (int i = 0; i <= 2000; i++)
{ if (mas[i] == 0) countinue;
counter += (mas[i]-1)*(mas[i])/2;
for(int q = i+1; q <= 2001; q++)
{
if (mas[q] == 0) countinue;
san = sqrt ((i-1000)*(q-1000));
if(san == floor(san) && san == ceil(san)) {counter += mas[i]*mas[q];}
}
}
printf("%d", counter);
}
```

B

```
n = input()
s = input()
a = it permutations(s)
for i in a:
i = ''.join(i)
if i[0] != 0 and int(i) % 8 == 0:
print('YES')
break
else:
print('NO')
```

B

```
input()
a = input()
s = ''
s1 = a[::-1]
s += s1
if int(s) % 8 == 0
print('YES')
else
print('NO')
```

C

```
#include<bits/stdc++.h>
using namespace std;
int main(){
 int n;
 double s;
 cin >> n >> s;
 double mx_f = s, mx_s = 0, mn_f = s, mn_s = 0;
 for (int i = 1; i <= n; i++){
 double p;
 cin >> p;
 s = s + (abs(s) * p);
 if (s > mx_f) mx_f = s, mx_s = i;
 if (s < mn_f) mn_f = s, mn_s = i;
 }
 cout << mn_s << " " << mx_s;
}
```

```
#include <bits/stdc++.h>
using namespace std;
int n, num[1003]; // size, array
int k; // create counter
int main()
{cin >> n;
{for(int i=1; i<=n; i++)
{cin >> num[i];
for(int i=1; i<=n; i++)
{for(int j=i+1; j<=n; j++)
{
{ // check number
if (num[i]*num[j]>=0)
if ((double)sqrt(num[i]*num[j])==(int)sqrt(num[i]*num[j]))
{k++; // update counter
 cout<<k; // answer
cout<<k; // answer
 return 0;
```

B.
```
import itertools as it
n = input()
s = input()
a = it.permutations(s)
For i in a:
i = "".join(i)
if i[0] != 0 and int(i) % 8 == 0
print('YES')
break
else:
print('NO')
```

C.
```
#include <bits/stdc++.h>
using namespace std;
int main()
{int main()
int n
double s;
cin >> n >> s;
double mx_f = s, mx_s = 0, mn_f = s, mn_s = 0
for (int i = 1; i <= n, i++)
{double p;
cin >> p
s = s(abs(s) p);
if (s > mx_f) mx_f = s. mx_s = i;
if (s < mn_f) = s, mn_s = i y
cout << mn_s << " " << mx_s;
```

```
Sagara A
#include <vector>
#include <iostream>
#include <algorithm>

using namespace std;

int main()
{
ios::sync_with_stdio(false);
int n, b=0
cin >> n;
string s;
cin >> s;

if(n==1) {
    if( ((s[0]-'0')%8==0) {cout << "YES"; return 0;}
} else if(n==2) {
    if( ((s[0]-'0')*10+(s[1]-'0')%8==0) {cout << "YES"; return 0;}
    else if( ((s[1]-'0')*10+(s[0]-'0')%8==0) {cout << "Yes"; return 0;}
}
else{
    do{
        if(s[0]!='0') {
            if( ((s[n-3]-'0')*100+(s[n-2]-'0')*10+(s[n-1])-'0')%8==0
){cout << "YES"; return 0;}
            else if (s[n-3]=='0' && s[n-2]=='0' && s[n-1]=='0') {cout << "YES";
return 0;}

        }
    } while (next_permutation(s.begin(), s.end()));
}
cout << "NO";
    return 0;
}
```

Задача B

```
#include <bits/stdc++.h>
using namespace std;
typedef long long ll;
int main() {
    ios_base::sync_with_stdio(0); cin.tie(0);
  int n;
  cin >> n;
  double s;
  cin >> s;
  // minimum_index = 0, maximum_index = 0, minimum = s, maximum = s;
  for(int i=1; i<n; i++) {
     double cur;
     cin >> cur;
     s += abs(s) * cur;
     if(minimum > s) {
     minimum = s;
     minimum_index = i;
    }
    if(maximum < s) {
    maximum = s;
    maximum_index = i;
    }
}
cout << minimum_index << " " << maximum_index << '\n';
 return 0;
}
```

```
Задание С
#include <iostream>
#include <vector>
#include <cmath>
using namespace std;

int main() {

  int n, q;
  cin >> n >> q;
  vector <int> a;
  a.reserve(n);
  vector <int> b;
  b.reserve(n);
  vector <int> sums;

  for(int i=0; i<n; i++) {
     cin >> a[i];
  }

  for(int i=0; i<n; i++) {
     cin >> b[i];
  }

  for(int i=0; i<q; i++) {
     int l, r, sum=0;
     cin >> l >> r;
     for int j=l-1; j<r; j++) {
        sum += pow(a[j]-b[j],2);
     }
     sums.push_back(sum);
  }
  for(int i=0; i<sums.size(); i++) {
     cout << sums[i] << endl;
  }
}
```

Задача A. Делится?

```
var
d,p: array [0..9] of integer;
i,k,n,m,t,r: integer;
c: char;
f: string [3];
begin
f:='NO';
readln(k);
for i:=1 to k do
begin
read(c);
inc(d[ord(c)-ord('0')])
end;
readln;
if (k>d[0]) or (k=1)
then if d[0]<3
 then begin
 if k>=3
 then r:=3
 else r:=k;
m:=round(exp(r*ln(10)))-1
m:=m-m mod 8;
n:=m div 10+7;
n:=n-n mod 8;
while n<=m do
begin
for i:=0 to 9 do p[i]:=0;
t:=n;
repeat
inc(p[t mod 10]);
t:=t div 10
until t=0;
for i:=0 to 10 do if (p[i]>0) and (p[i]<=d[i])
 then inc(t);
 if t=r
 then begin
 f:='Yes';
 break
 end;
 inc(n,8)
 end
 end
 else f:='Yes';
writeln(f)
end.
```

Задача B. Денозит

```
#include <bits/stdc++.h>
using namespace std;
typedef long long ll;
int main(){
    ios_base::sync_with_stdio(0); cin.tie(0);
int n;
cin >> n;
double s;
cin >> s;
// minimum_index=0, maximum_index=0, minimum=s, maximum=s;
for(int i=1; i<=n; i++){
double cur;
cin >> cur;
s+=abs(s) * cur;
if (minimum >s) {
minimum=s;
minimum_index=i;
}
if(maximum<s){
maximum= s;
maximum_index=i;
}
}

cout<<minimum_index<<" "<<maximum_index<<'\n';
return 0;
}
```

Задача С. Сумма квадратов

```
#include <iostream>
#include <vector>
#include <cmath>
using namespace std;
int main() {
int n, q;
cin >> n >> q;
vector <int> a;
a.reserve(n);
vector <int> b;
b.reserve(n);
vector <int> sums;
for(int i=0; i<n; i++) {
cin >> a[i];
}
for(int i=0; i<q; i++){
int l,r, sum=0;
cin >> l >> r
for(int j=l-1; j<r; i++) {
    sum += pow(a[j]- b[j], 2);
}
sums.push_back(sum);
}
for(int i=0; j< sums.size(); i++){
cout << sums[i] << endl;
}
}
```

1.A

```
#include <vector>
#include <map>
#define ll long long
using namespace std;
 void ok (bool a) {
     if (g) cout <<"YES";
     else cout <<"NO";
     exit(0)
     }
    int  main () {
      ll n, k ;
    string s;
    map <ll, ll> m;
    vector<string> v
    cin >> n
    if (n == 1) {
        cin >> k
        if (k % 8 == 0) ok (1)
        else ok (0)

    }
        }
     else if (n==2) {
     cin >> k;
     if (k % 8 == 0) ok (1)
     else {
     k = (k%10) * 10 + k/10
     else ok (0)
    }
      }
```

A жошығасы

```
cin>>s;
for(int i=0; i<s.size(); i++) m[s[i]-'0']++;
for(int i=0; i<1000; i+=8) {
 map<int,int>w;
 w[i/100]++;
 w[i%100/10]++;
 w[i%10]++;
if (m[i/100]>=w[i/100]>=w[i%100/10] && m[i%10]>= w[i%10] ok(1);
  ok(0); }
```

2 B

```
#include <iostream>
#include <algorithm>
using namespace std;
int main()
{
int n;
float s;
cin >> n >> s
double max_m = s, min = s, max_d = 0  min_d = 0
for(int i=0; i<n; i++) {
float percent
cin >> percent
s = s+(abs(s) * percent)
if (s > max_m) { max_m = s; max_d = i+1; }
if (s < min_m) { min_m = s; min_d = i+1; }
 }
cout << min_d << " " << max_d;
   return 0;
}
```

~~B дұрысы~~

```
#include <bits/stdc++.h>
using namespace std;
int main () {
    ios base::sync_with_stdio(0);cin.tie(0)
    int n;
    cin>>
    n; int a[n];
    for(int
```

~~A~~ C.

```
#include <iostream>
#define ll long long int
int main ()}
using namespace std
    ll n,g,a[1010000],b[1010000],n;
    cin>>n>>g;
    for(int i=1;i<=n;i++)cin>>a[i];
    for(int i=1;i<=n;i++) {
        cin>>b[i];
        a[i]-=b[i];
        a[i]-=b[i]
        a[i]=a[i]*b[i]+a[i-1];
    }
    while(g--){
        cin>>t>>n;
        cout<<a[n]-a[t-1]<<"\n";
    }
}
```