

```
#include <iostream>
using namespace std;

int main()
{
    int n, a, b;
    int Total = 0;
    cout << "n , a , b\n";
    cin >> n >> a >> b;

    for (int i = 1; i <= n; ++i)
    {
        int tmp = i;
        int digits_sum = 0;

        while (tmp)
        {
            digits_sum += tmp % 10;
            tmp /= 10;
        }

        if (a <= digits_sum && digits_sum <=
            Total + i;
        cout << Total << "\n";

        return 0;
    }
```

```
3  int main()
4  {
5      int n = 1;
6      while (n <= 10)
7      {
8          cout << n << "\n";
9          n++;
10     }
11
12     return 0;
```

```
5      int is_even = 0, is_odd = 0, n = 10;
6      for (int i = 1; i <= n; i++)
7      {
8          if (i%2==0)
9          {
10             is_even++;
11         }
12         else
13         {
14             is_odd++;
15         }
16
17
18
19     }
20     cout <<"even is "<<is_even<<" odd is "<<is_odd<<"\n";
```

```
5     int n;  
6     cin>>n;  
7     long long fact =1;  
8     for (int i = 1; i <=n; i++)  
9     {  
10         fact =fact*i;  
11     }  
12  
13  
14     return 0;
```

```
4 {  
5     int n;  
6     cin>>n;  
7     long long fact =1;  
8     for (int i = 1; i <=n; i++)  
9     {  
10         fact =fact*i;  
11     }  
12  
13  
14     return 0;
```

```
include <iostream>
include <algorithm>
using namespace std;

int main()

{
    int n;
    int L = -1000000;
    int S = 1000000;

    for (int i = 1; i <= 10; i++)
    {
        cin >> n;
        L = max(n, L);
        S = min(n, S);
    }

    cout << L << "\n";
    cout << S << "\n";

    return 0;
}
```

```
2 using namespace std;
3 int main()
4 {
5     int x;
6     while (true)
7     {
8         cin >> x;
9         if (x==0)
10        {
11            break;
12        }
13
14
15
16    }
17    return 0;
18 }
```

```
4  {
5      int n;
6      cin >> n;
7      for (int i = 1; i <= n; i++)
8      {
9          for (int j = 1; j <= i ; j++)
10         {
11             cout << "#";
12         }
13         cout << "\n";
14     }
```

```
include <iostream>
using namespace std;
int main()
{
    int n=4;
    for (int i = n; i >=1 ; i
    {
        for (int j =1; j <= i
            {
                cout << "#";
            }
            cout << "\n";
        }
    }
    return 0;
}
```

```
#include <iostream>
using namespace std;
int main()
{
    long long n,m;
    cin >>n>>m;
    n=n%10;
    m=m%10;

    cout <<n+m<<"/n"
    return 0;
}
```

```
6   int N;
7
8   cin >> N;
9
10  double even_sum = 0, odd_sum = 0;
11  int even_count = 0, odd_count = 0;
12
13  int cnt = 1;
14  while (cnt <= N)
15  {
16      double value;
17      cin >> value;
18
19      if (cnt % 2 == 0)
20      |   even_sum += value, even_count++;
21      else
22      |   odd_sum += value, odd_count++;
23
24      cnt++;
25  }
```

```
#include<iostream>
using namespace std;
```

```
int main()
{
    int x, y;

    cin >> x >> y;

    while (x <= y)
    {
        cout << x << "\n";
        x++;
    }
    return 0;
}
```

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int num;
7     char ch;
8
9     cin >> num >> ch;
10
11     while (num > 0)
12     {
13         cout << ch;
14         num -= 1;
15     }
16     return 0;
17 }
```

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int N;
7
8     cin >> N;
9
10    int row = 1;
11    while (row <= N)
12    {
13        int stars_count = 1;
14
15        while (stars_count <= row)
16        {
17            cout << '*';
18            ++stars_count;
19        }
20        cout << "\n";
21        row++;
22    }
23
24    return 0;
25 }
```

```
#include <iostream>
using namespace std;
```

```
int main()
{
    int N;

    cin >> N;

    int row = 1;
    while (row <= N)
    {
        int stars_count = 1;

        while (stars_count <= row)
        {
            cout << '*';
            ++stars_count;
        }
        cout << "\n";
        row--;
    }

    return 0;
}
```

```
2 using namespace std;
3
4 int main()
5 {
6     int N;
7     cin >> N;
8     int row = 1;
9     while (row <= N)
10    {
11        int stars_count = 1;
12        while (stars_count <= N - row)
13        {
14            cout << ' ';
15            ++stars_count;
16        }
17        stars_count = 1;
18        while (stars_count <= 2 * row - 1)
19        {
20            cout << '*';
21            ++stars_count;
22        }
23        cout << "\n";
24        ++row;
25    }
26    row = N;
27    while (row >= 1)
28    {
29        int stars_count = 1;
30
31        while (stars_count <= N - row)
32        {
33            cout << ' ';
34            ++stars_count;
```

```
30
31 while (stars_count <= N - row)
32 {
33     cout << ' ';
34     ++stars_count;
35 }
36 stars_count = 1;
37 while (stars_count <= 2 * row - 1)
38 {
39     cout << '*';
40     ++stars_count;
41 }
42 cout << "\n";
43 --row;
44 }
```

```
3
4  int main()
5  {
6      int N;
7      cin >> N;
8      int res = 0;
9      int count = 0;
10     while (count <= N)
11     {
12         if (count % 8 == 0 || count % 3 == 0 && count % 4 == 0)
13         {
14             cout << count<<" ";
15             count++;
16         }
17     }
18
19
20     return 0;
21 }
```

```
3
4 int main()
5 {
6     int N;
7     cout << "Value of N = \n";
8     cin >> N;
9
10    int pos = 0;
11
12    while (pos < N)
13    {
14        string str;
15        cin >> str;
16        if (str == "no" || str == "No" || str == "nO" || str == "NO" ||
17            str == "on" || str == "oN" || str == "On" || str == "ON")
18            cout << str << " ";
19
20        pos++;
21    }
22    return 0;
```

```
5 {
6     int N;
7
8     cin >> N;
9
10    int number = 0;
11
12    while (N > 0)
13    {
14        int last_digits = N % 10;
15        N = N / 10;
16
17        number = number * 10 + last_digits;
18    }
```

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int T;
7
8     cin >> T;
9
10    while (T > 0)
11    {
12        int N;
13        cin >> N;
14
15        int pos = 0;
16        int result;
17
18        while (pos < N)
19        {
20            int value;
21            cin >> value;
22
23            if (pos == 0)
24                result = value;
25            else if (result > value)
26                result = value;
27
28            pos++;
29        }
30        cout << result << "\n";
31
32        --T;
33    }
34
35    return 0;
```

```
#include <iostream>
using namespace std;

string rev(const string &str)
{
    string ret = str;
    int st = 0, en = (int)str.size() - 1;
    while (st < en)
    {
        char tmp = ret[en];
        ret[en] = ret[st];
        ret[st] = tmp;
        st++;
        en--;
    }
    return ret;
}

int main()
{
    cout << rev("") << "\n";
    cout << rev("abc") << "\n";
    cout << rev("abcde") << "\n";

    return 0;
}
```

```
de <iostream>
namespace std;
in()
t mo[]={5,7,8,9,4,3,2,1};
t size=sizeof(mo)/sizeof
r (int i = 0; i < size; i++)
    cout << mo[i];

turn 0;
```

```
2  using namespace std;
3  int main()
4  {
5      int nums[4];
6
7      for (int i = 0; i < 4; i++)
8      {
9          cin >> nums[i];
10     }
11     for (int i = 3; i < 4; i++)
12     {
13         cout << nums[0] + nums[1] + nums[2] + nums[3];
14     }
15
16     return 0;
17 }
```

```
int n, a[N], mn = 10000, mx = -1;
cin >> n;
for (int i = 0; i < n; i++)
{
    cin >> a[i];
    if (a[i] < mn)
    {
        mn = a[i];
    }
    if (a[i] > mx)
    {
        mx = a[i];
    }
}

for (int i = 0; i < n; i++)
{
    if (a[i] == mn)
        a[i] = mx;
    else if (a[i] == mx)
        a[i] = mn;
}

for (int i = 0; i < n; i++)
{
    if (i)
        cout << " ";
    cout << a[i];
}
```

```
4 int main()
5 {
6     int n, tmp, mn[3];
7     cin >> n;
8     for (int i = 0; i < n; i++)
9     {
10         int value;
11         cin >> value;
12         if (i < 3)
13             mn[i] = value;
14         else
15         {
16             int mx_pos = 0;
17             for (int j = 1; j < 3; ++j)
18             {
19                 if (mn[mx_pos] < mn[j])
20                     mx_pos = j;
21             }
22
23             if (value < mn[mx_pos])
24                 mn[mx_pos] = value;
25         }
26     }
27     int mx_pos = 0;
28     for (int j = 1; j < 3; ++j)
29     {
30         if (mn[mx_pos] < mn[j])
31             mx_pos = j;
32     }
33     tmp = mn[2];
34     mn[2] = mn[mx_pos];
35     mn[mx_pos] = tmp;
36     if (mn[0] > mn[1])
37     {
38         tmp = mn[0];
```

```
39         mn[0] = mn[1];
40         mn[1] = tmp;
41     }
42
43     for (int i = 0; i < 3; i++)
44         cout << mn[i] << " ";
45
46     return 0;
47 }
```

```
#include <iostream>
using namespace std;

int main()
{
    const int N = 200;

    int n, a[N];

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

    int mn;
    bool first_time = true;

    for (int i = 0; i < n; i++)
    {
        for (int j = i + 1; j < n; j++)
        {
            int tmp = a[i] + a[j] + j - i;
            if (first_time || tmp < mn)
            {
                mn = tmp;
                first_time = false;
            }
        }
    }

    cout << mn << endl;
    return 0;
}
```

```
#include <iostream>
using namespace std;
```

```
int main()
```

```
{
```

```
    int arr[1000];
```

```
    int N;
```

```
    cin >> N;
```

```
    for (int i = 0; i < N; i++)
```

```
        cin >> arr[i];
```

```
    for (int i = 0; i < N / 2; i++)
```

```
    {
```

```
        if (arr[i] != arr[N - 1 - i])
```

```
        {
```

```
            cout << "NO";
```

```
            return 0;
```

```
        }
```

```
    }
```

```
    cout << "YES";
```

```
    return 0;
```

```
}
```

```
4  int main()
5  {
6      int n;
7      cin >> n;
8      const int MAX = 270 + 500 + 1;
9      int frequency[MAX] = {0};
10
11     for (int i = 0; i < n; i++)
12     {
13         int value;
14         cin >> value;
15
16         value += 500;
17         frequency[value]++;
18     }
19
20     int mx_pos = 0;
21     for (int i = 1; i < MAX; i++)
22     {
23         if (frequency[mx_pos] < frequency[i])
24             mx_pos = i;
25     }
```

```
include <iostream>
using namespace std;

int main()
{
    int n, x, occurrence[10] = {0};

    cin >> n;

    for (int i = 0; i < n; i++)
    {
        cin >> x;

        while (x)
        {
            int digit = x % 10;
            occurrence[digit]++;
            x /= 10;
        }
    }

    for (int i = 0; i <= 9; i++)
    {
        cout << i << " " << occurrence[i] << " ";
    }
}
```

```
include <iostream>
using namespace std;

int main()

const int N = 201;
int sequence[N], indx;

int occurrence[N * 10] = {0};

cin >> indx;
sequence[0] = 0;
occurrence[0] = 1;

for (int i = 1; i <= indx; i++)
{
    int cur = sequence[i - 1] - (i - 1) -
    if (cur < 0 || occurrence[cur])
        cur = sequence[i - 1] + (i - 1) +
        sequence[i] = cur;
        occurrence[cur] = 1;
}

cout << sequence[indx];
return 0;
```

```
2  using namespace std;
3  int main()
4  {
5      string name1;
6      cin>>name1;
7      int N = name1.length();
8      cout<<N<<"\n";
9      return 0;
10 }
```

```
include <iostream>
using namespace std;

int main()

int n;

cin >> n;

for (int i = 0; i < n; ++i)
{
    for (int j = 0; j < n; ++j)
    {
        if (i == j || n - i - 1 == j)
            cout << "* ";
        else
            cout << " ";
    }
    cout << "\n";
}

return 0;
```

```
lude <iostream>
g namespace std;

main()
{
    int count = 0;

    for (int x = 50; x <= 300; ++x)
    {
        for (int y = 70; y <= 400; ++y)
        {
            if (x < y && ((x + y) % 7
                == 0))
            {
                ++count;
            }
        }
    }

    cout << count << "\n";

    return 0;
}
```

```
#include<iostream>
using namespace std;

int main()
{
    int count = 0;

    for (int x = 50; x <= 300; ++x)
    {
        int start = 70;

        if (start < x + 1)
            start = x + 1;

        for (int y = start; y <= 400; ++y)
        {
            if ((x + y) % 7 == 0)
            {
                ++count;
            }
        }
    }

    cout << count << "\n";

    return 0;
}
```

```
include <iostream>
using namespace std;
```

```
int main()
```

```
int count = 0;
```

```
for (int a = 1; a <= 200; ++a)
```

```
{
```

```
    for (int b = 1; b <= 200; ++b)
```

```
    {
```

```
        for (int c = 1; c <= 200; ++c)
```

```
        {
```

```
            for (int d = 1; d <= 200; ++d)
```

```
            {
```

```
                count += (a + b == c + d);
```

```
            }
```

```
        }
```

```
    }
```

```
}
```

```
cout << count << "\n";
```

```
return 0;
```

```
1 #include <iostream>
2 using namespace std;
3
4 int main()
5 {
6     int number;
7     cout << "enter the number:\n";
8     cin >> number;
9
10    if (number == 1)
11        cout << "NO\n";
12    else
13    {
14        bool is_ok = true;
15
16        for (int i = 2; i < number; ++i)
17        {
18            if (number % i == 0)
19            {
20                is_ok = false;
21                break;
22            }
23        }
24
25        if (is_ok)
26            cout << "YES";
27        else
28            cout << "NO";
29    }
30
31    return 0;
32 }
```