- 1 lab work 2
- 2 usefull links for this lab
- 3 problem set
- 4 lab contest

All given tasks are emplaced in automated checker system for lab1: http://acm.kbtu.kz/cgi-bin/new-register?action=211&contest_id=125
Feel free to submit your solutions without attempt count penalty.

5 solutions

```
1 #include <iostream>
   using namespace std;
5
   int main(){
    int n;
     cin >> n;
     if(n = 0){
9
      cout << "None";
10
     else if (n \% 2 = 0)
11
12
     cout << "Even";
13
     else if (n \% 2 != 0) {
14
15
      cout << "Odd";
16
17 return 0;}
   #include <iostream>
3
   using namespace std;
  int main(){
5
    int n;
     \mathrm{cin} >> \mathrm{n}\,;
     if(n \% 2 != 0){
      cout << "Super";</pre>
```

```
10
     }
11
     else if (n \% 2 == 0 \&\& n >= 2 \&\& n <= 5){
12
      cout << "Not Super";</pre>
13
     else if (n \% 2 = 0 \&\& n > = 6 \&\& n < = 20)
14
      cout << "Super";</pre>
15
16
     else if (n \% 2 = 0 \&\& n > 20){
17
18
      cout << "Not Super";</pre>
19
20
21 return 0;}
   #include <iostream>
 3
   using namespace std;
 5
   int main(){
 6
     int year;
 7
        \ cin >> year;
        if (year % 4 == 0 && year % 100 != 0 || year % 400 == 0) {
 8
         cout << "YES";
 9
10
11
        else{
12
         cout << "NO";
13
14
15
   return 0;
   #include <iostream>
 3
   using namespace std;
 4
 5
   int main(){
 6
     int n, k;
 7
        cin >> n >> k;
 8
        if (n <= k) {
 9
             cout \ll 2;
10
        else{
11
12
13
             if((2 * n) \% k == 0)
14
                 cout \ll (2 * n) / k;
15
16
             else{}
                 cout << (((2 * n) / k) + 1);
17
```

```
18
            }
19
        }
20
21
22 return 0;}
   #include <iostream>
   using namespace std;
3
   int main ()
4
5
        int a,b;
6
        cin >> a >> b;
7
        if (a == b) {
8
            cout << 0;
9
10
        else{}
            if (a>b) {
11
12
                 cout << 1;
13
14
            else{
15
                 cout << 2;
16
17
        }
18
19
20 return 0;}
1 #include <iostream>
   using namespace std;
5
  int main(){
    int n;
7
     cin >> n;
8
     int sum = 0;
     for (int i = 1; i \le n; i++){
10
     sum += i;
11
12
    \verb"cout" << \verb"sum";
13 return 0;}
1 #include <iostream>
3 using namespace std;
5 int main(){
```

```
int n;
 7
     cin >> n;
8
     int maxi = 0;
9
     for (int i = 0; i < n; i++){
10
      int x;
11
      cin >> x;
12
      \max_{i} = \max(\max_{i}, x);
13
14
    cout << maxi;
15 }
 1 #include <iostream>
 2 using namespace std;
 4 int n;
 5 \quad \mathbf{int} \quad \mathbf{cnt0} = 0;
 6 \quad \mathbf{int} \quad \mathbf{cnt1} = 0;
 7 int main()
8
9
     cin >> n;
10
     for(int i=0; i < n; i++)
11
12
13
      int x;
14
      cin>>x;
15
      if(x\%2==0) cnt0++;
16
17
      else cnt1++;
18
19
20
    cout << cnt 0 << " " << cnt 1 << end 1;
21 }
1 #include <iostream>
 2 using namespace std;
 3
4 int n;
 5
   int cnt = 0;
 7
   int main()
8
    {
9
     cin >> n;
10
11
     for (int i=0; i < n; i++)
12
13
      int x;
```

```
14
      cin>>x;
15
16
      if(x\%10==7) cnt++;
17
18
19
         cout << cnt << endl;
20 }
 1 #include <iostream>
 2 using namespace std;
 3
 4 int n;
 5 int ans = 0;
 6 int cnt = 0;
7
   int main()
8
9
     cin >> n;
10
11
     for (int i=0; i < n; i++)
12
13
              int x;
14
              cin>>x;
              cnt = 0;
15
              \mathbf{while}(\mathbf{x}!=0)
16
17
18
                   int r = x\%10;
19
                   if(r==0) cnt++;
20
                  x/=10;
              }
21
22
              ans += cnt;
23
     }
24
25
         cout <\!\!<\!\!ans <\!\!<\! endl;
26 }
1 #include<iostream>
 3 using namespace std;
 5 long long n;
 7
   int main() {
     cin >> n;
9
     long long cur = 1;
     while(cur <= n) {
  cout << cur << " ";</pre>
10
11
```

```
12
     cur *= 2;
13
14
    return 0;
15 }
1 #include<iostream>
3 using namespace std;
4
5 long long n;
6
7 int main() {
    cin >> n;
8
    long long cur = 1;
9
10
    \mathbf{while}(\mathbf{cur} \le \mathbf{n}) {
     cout << cur << " ";
11
12
     cur *= 2;
13
14
    return 0;
15 }
1 #include <iostream>
2 using namespace std;
3 int main(){
    int a, b;
    cin >> a >> b;
    cout << (a & b);
 7 return 0;}
1 #include <iostream>
 2 using namespace std;
3 int main(){
    int a, b;
    cin >> a >> b;
    cout \ll (a \mid b);
7 return 0;}
1 #include <iostream>
 2 using namespace std;
3 int main(){
4
    int a, b;
    cin \gg a \gg b;
    cout \ll (a \hat{b});
 7 return 0;}
```

6 additional tasks for this lab

You can solve problems starting from A to J from the link below: https://informatics.msk.ru/mod/statements/view.php?id=2296 note: statements are in russian