

## Отчёт по выполнению 3 лабораторной работы на C++

В ходе лабораторной работы я познакомился с различными циклами(for,while, do while).

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     setlocale(LC_ALL, "Russian");
6     int i = 1;
7     while (i != 11)
8     {
9         cout << i << endl;
10        i += 1;
11    }
12    return 0;
13 }
```

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int i = 1;
6     int sum = 0;
7     while (i != 101)
8     {
9         sum += i;
10        i += 1;
11    }
12    cout << sum << endl;
13    return 0;
14 }
15
```

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int c1 = 1;
6     int c2 = 1;
7
8     while (c1 < 11) {
9         while (c2 < 11) {
10            cout << c1 << "*" << c2 << '=' ;
11            cout << c1 * c2 << endl;
12            c2 += 1;
13        }
14        c1 += 1;
15        c2 = 1;
16    }
17 }
```

```
1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int numb;
6     cout << "enter a number" << endl;
7     cin >> numb;
8     int i = 1;
9     int rez = 1;
10    for (i; i <= numb; i++)
11    {
12        rez = i * rez;
13    }
14    cout << "Factorial:" << rez << endl;
15    return 0;
16 }
```

```

1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int i = 1;
6      do
7      {
8          cout << i << endl;
9          i++;
10     } while (i != 11);
11
12     int j = 1;
13     int sum = 0;
14     do
15     {
16         sum += j;
17         j++;
18     } while (j != 101);
19     cout << sum << endl;
20
21     int num;
22     cout << "enter a number" << endl;
23     cin >> num;
24     int cnt = 0;
25     int k = 1;
26     do
27     {
28         if (num % k == 0)
29         {

```

```

28         if (num % k == 0)
29         {
30             cnt += 1;
31         }
32         k++;
33     } while (k != num+1);
34     if (cnt == 2)
35     {
36         cout << "Simple" << endl;
37     }
38     else
39     {
40         cout << "No" << endl;
41     }
42     return 0;
43 }

```

```

1  #include <iostream>
2  using namespace std;
3  int main()
4  {
5      int i1 = 1;
6      int i2 = 1;
7      do
8      {
9          i1++;
10         i2 = 1;
11         do
12         {
13             cout << i1 << "*" << i2 << "=" << i1 * i2 << endl;
14             i2++;
15         } while (i2 != 11);
16     } while (i1 != 10);
17     return 0;
18 }

```

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Github: [https://github.com/Qubicool/lab\\_c](https://github.com/Qubicool/lab_c)