

Home work 1

run-time output

Guess the output

25

14/2

7

practice makes perfect

Home work 2

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

```
int main( )
```

```
{
```

```
    cout << "*" << endl;
```

```
    cout << "* *" << endl;
```

```
    cout << "* * *" << endl;
```

```
    cout << "* * * *" << endl;
```

```
    cout << "* * * * *" << endl;
```

```
    return 0;
```

```
}
```

Home work (errors)

```
1 <stream
2 STD
5 cout << "work smart not hard\n";
8 MAIN
11
12 "tomorrow"
13 "<"
14 end
15 ""
16 >>
18 out
20 <
```

debugg

```
1 <iostream>
2 std;
5
8 int main ( ) {
11 cout << "children";
12 cout << "We worry about what a children become tomorrow,";
13 "X" < "
14 endl;
15 cout << "It is easier - broken men" << endl;
18 cout
20 cout <<
```

Homework (math operations)

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

```
int main ( ) {
    int num1 = 5
    int num2 = 10
```

```
    cout << "5+10=" << 5+10 << num1 + num2 << "\n";
```

```
    cout << "5-10=" << num1 - num2 << "\n";
```

```
    cout << "5*10=" << num1 * num2 << "\n";
```

```
    cout << "5÷10=" << num1 / num2 << "\n";
```

```
    return 0;
}
```

Homework (students grads)

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

```
int main ( ) {
```

```
    string name1, string Id1, double grade1;
```

```
    cout << "What's student 1 name:";
```

```
    cin >> name1 >> "\n";
```

```
    cout << "His Id:";
```

```
    cin >> Id1 >> "\n";
```

```
    cout << "His CS exam grade:";
```

```
    cin >> grade1 >> "\n";
```

```
    string name2, string Id2, double grade2;
```

```
    cout << "What's student 2 name:";
```

```
    cin >> name2 >> "\n";
```

```
    cout << "His Id:";
```

```
    cin >> Id2 >> "\n";
```

```
do Cout << "His CS exam grade: ";
```

```
Cin >> grade2 >> "\n";
```

```
Cout << "\n Students' grades in CS \n";
```

```
Cout << "name 1 name 1 << "With Id" << Id1 << "got grade" << grade1;
```

```
"name 2 Cout << "name 2" << "with Id" << Id2 << "got grade" << grade2 << "\n";
```

```
Cout << "Average grade is" << (grade1 + grade2) / 2.0;
```

```
return 0;
```

```
}
```

```
# Homework (even and odd sum)
```

```
# including <iostream>
```

```
using namespace std;
```

```
int main ( ) {
```

```
int even1, even2, even3, even4;
```

```
int odd1, odd2, odd3, odd4;
```

```
Cin >> odd1 >> even1;
```

```
Cin >> odd2 >> even2;
```

```
Cin >> odd3 >> even3;
```

```
Cin >> odd4 >> even4;
```

```
int even sum = even1 + even2 + even3 + even4;
```

```
int even odd sum = odd1 + odd2 + odd3 + odd4;
```

```
Cout << even sum << " " << odd sum << "\n";
```

```
return 0;
```

~~4 homework: print output:~~ Homework 5

7 1

8 2

9 3

10 5

11 8

12 13

13 21

14 34

15 55

1 2 3 4 5 6 7 8

Homework 6: (Swapping 2 variables)

7: Swapping 3 variables:

```
#include <iostream>
```

```
using namespace std;
```

```
int main() {
```

```
    int num1, num2, num3;
```

```
    cin >> num1, num2;
```

```
    num3 = num2
```

```
    num2 = num1
```

```
    num1 = num3
```

```
    cout << num1 << " " << num2 << "\n";
```

```
    return 0;
```

```
}
```

logical operators

H.w	output:	creat logic:
8 1		int main() {
9 0		int nb, ng, nt
11 1		Cin >> nb >> ng >> nt
12 0		cout << (nb > 25) << "\n";
13 1		cout << (nb <= 30) << "\n";
15 1		cout << (nb > 20 && nt > 2 ng > 30 && nt > 4) << "\n";
16 1		cout << nb < 60 ng < 70 << "\n";
18 1		cout << (! (nb >= 60) && ! (ng >= 70)) << "\n";
19 0		cout << (nb == ng + 10) << "\n";
21 1		cout << (nb - ng > 10 nt < 5) << "\n";
22 0		cout << (nb == ng + 10 ng == nb + 15) << "\n";
		return 0; }

H.w 3 (simplify expression)

- $\neg$
- $F || T \rightarrow T$
- $T || F \rightarrow T$
- T
- T
- T
- T
- T