

D: > future > Home work > Errors > #Home work 1.cpp > main()

```
1  #include<iostream>
2  using namespace std;
3
4  int main()
5  {
6      cout<<"\nGuess the "
7          <<"output\n---\n";
8
9      cout<<10+20-5<<endl;
10     cout<<"14/2"<<"\n";
11     cout<<17-10<<" \n";
12     cout<<"endl";
13     cout<<"\nPractice makes perfect";
14
15     return 0;
16
17     cout<<"\n\nBye\n\n";
18 }
```


PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
PS C:\Users\HP> & 'c:\Users\HP\.vscode\extensions\ms-vscode.cpptools-1.23.6-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-x5o5zq4w.t0u' '--stdout=Microsoft-MIEngine-Out-md0vt5lu.cwa' '--stderr=Microsoft-MIEngine-Error-hqg3pard.t3i' '--pid=Microsoft-MIEngine-Pid-ydwsfvvg.1gl' '--dbgExe=C:\Program Files\CodeBlocks\Mingw\bin\gdb.exe' '--interpreter=mi'
```

```
Guess the output
---
25
14/2
7
endl
Practice makes perfect
PS C:\Users\HP>
```

+ ^ ... ^ x

C/C++ Com...
C/C++ Com...
g++.exe... ✓
cpgdbg: #H...

D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int days;
6      cout << "Enter the number of days: ";
7      cin >> days;
8      int years = days / 360;
9      int months = (days % 360) / 30;
10     int remainingDays = (days % 360) % 30;
11     cout << "Years: " << years << endl;
12     cout << "Months: " << months << endl;
13     cout << "Days: " << remainingDays << endl;
14     return 0;
15 }
```

D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a = 10, b = 20, c = 30, d = 40;
6      cout << (a + b == c) << "\n";
7      cout << (a + b + c >= 2 * d) << "\n";
8      cout << (a > 5 || d < 30) << "\n";
9      cout << (a > 5 && d < 30) << "\n";
10     cout << (a == b && b == c) << "\n";
11     cout << (a > 5 && d < 30 || c - b == 10) << "\n";
12     cout << (a == b && b == c && c == d) << "\n";
13     cout << (a > 5 && d < 30 || c > d || d % 2 == 0) << "\n";
14     cout << (a > 5 && d < 30 || c > d && d % 2 == 0) << "\n";
15     cout << (a == 10 || b != 20 && c != 30 || d != 40) << "\n";
16     cout << ((a == 10 || b != 20) && c != 30 || d != 40) << "\n";
17     return 0;
18 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```
1
0
1
0
0
1
0
1
0
1
0
1
0
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a, b, c;
6      cin >> a >> b >> c;
7      int n = -1;
8      if (a < 100) n = a;
9      if (b < 100 && b > n) n = b;
10     if (c < 100 && c > n) n = c;
11     cout << n << endl;
12     return 0;
13 }
```



```

int main() {
    cout<<"* \n* * \n* * * \n* * * * \n* * * * * \n\n\n\n\n";
    cout<<"          *\n";
    cout<<"        * * *\n";
    cout<<"      * * * * *\n";
    cout<<"    * * * * * *\n";
    cout<<"          *\n";
    cout<<"        * * *\n";
    cout<<"      * * * * *\n";
    cout<<"        * * *\n";
    cout<<"          *\n";
    cout<<"          *\n\n\n\n\n";
    cout<<"          1\n";
    cout<<"        2 3 2\n";
    cout<<"      3 4 5 4 3\n";
    cout<<"    4 5 6 7 6 5 4\n";
    cout<<"  5 6 7 8 9 8 7 6 5\n";
    cout<<"          1\n";
    cout<<"        1 1\n";
    cout<<"      1 2 1\n";
    cout<<"    1 3 3 1\n";
    cout<<"  1 4 6 4 1\n";
    cout<<" 1 5 10 10 5 1\n";
    return 0;
}

```

D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int s1, e1, s2, e2;
6      cin >> s1 >> e1 >> s2 >> e2;
7      int a;
8      if (s1 > s2) a = s1;
9      else a = s2;
10     int b;
11     if (e1 < e2) b = e1;
12     else b = e2;
13     if (a > b) cout << -1 << endl;
14     else cout << "{" << a << ", " << b << "}" << endl;
15     return 0;
16 }
```

D: > future > Home work > Errors >  #Home work 1.cpp >  main()



```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      float a, b;
6      cout << "Enter the first number: ";
7      cin >> a;
8      cout << "Enter the second number: ";
9      cin >> b;
10     cout << a << "+" << b << "=" << a + b << endl;
11     cout << a << "-" << b << "=" << a - b << endl;
12     cout << a << "*" << b << "=" << a * b << endl;
13     cout << a << "/" << b << "=" << a / b << endl;
14     return 0;
15 }
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n;
6      cout << "Enter a number: ";
7      cin >> n;
8      cout << "Using %2: " << (n % 2) << "\n";
9      cout << "Using %10: " << ((n % 10) % 2) << "\n";
10     cout << "Using /2: " << ((n / 2) * 2 == n) << "\n";
11     return 0;
12 }
```



```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5  int a,b;
6  cout<<"Enter the value of a and b";
7  cin>>a>>b;
8  if ((a%2==0) && (b%2==0))
9  {
10     cout<<( a / b);
11 }
12 if ((a%2==1) && (b%2==1))
13 {
14     cout<<(a*b);
15 }
16 if ((a%2==1) && (b%2==0))
17 {
18     cout<<a+b;
19 }
20 if ((a%2==0) && (b%2==1))
21 {
22     cout<<a-b;
23 }
24     return 0;
```



```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n;
6      cout << "Enter your number: ";
7      cin >> n;
8      int A = (n % 10);
9      int B = (n / 10) % 10;
10     int C = (n / 100) % 10;
11     cout << "Sum of last 3 digits: " << A + B + C << endl;
12     return 0;
13 }
```

D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n;
6      cout << "Enter your number : ";
7      cin >> n;
8      cout << "Result = " << (n * (n + 1)) / 2;
9      return 0;
10 }
```

D:\> future > Yania > Untitled-1.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      float a, b, c, d, e, f;
6      cout << "Enter your first number : ";
7      cin >> a;
8      cout << "Enter your second number : ";
9      cin >> b;
10     cout << "Enter your third number : ";
11     cin >> c;
12     cout << "Enter your fourth number : ";
13     cin >> d;
14     cout << "Enter your fifth number : ";
15     cin >> e;
16     cout << "Enter your sixth number : ";
17     cin >> f;
18     cout <<b<< " + " <<d<< " + " <<f<< " = " <<b+d+f<< endl;
19     cout <<a<< " + " <<c<< " + " <<e<< " = " <<a+c+e<< endl;
20     return 0;
21 }
```

: > future > Yahia >  Untitled-1.cpp >  main()

```
2  using namespace std;
3
4  int main() {
5      double a, b, c, d, e;
6      cout << "Enter 5 numbers: ";
7      cin >> a >> b >> c >> d >> e;
8      cout << "Average : " << (a + b + c + d + e) / 5 << endl;
9      cout << "Sum Ratio : " << (a + b + c) / (d + e) << endl;
10     cout << "Average 2 : " << ((a + b + c) / 3) / ((d + e) / 2) << endl;
11     return 0;
12 }
```

D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      float a, b, c;
6      cout << "Enter the first number: ";
7      cin >> a;
8      cout << "Enter the second number: ";
9      cin >> b;
10     c=b;
11     cout << "The first number is: " << c << endl;
12     c=a;
13     cout << "The second number is: " << c << endl;
14
15     return 0;
16 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

PS C:\Users\HP> ^C

PS C:\Users\HP>

PS C:\Users\HP> & 'c:\Users\HP\.vscode\extensions\ms-vscode.cpptools-1.23.6-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-ranijdmt.ai0' '--stdout=Microsoft-MIEngine-Out-3ezuuhl0.2em' '--stderr=Microsoft-MIEngine-Error-duvj1b4m.jxg' '--pid=Microsoft-MIEngine-Pid-ggkimnkk.swt' '--dbgExe=C:\Program Files\CodeBlocks\MinGW\bin\gdb.exe' '--interpreter=mi'

Enter the first number: 5

Enter the second number: 7

The first number is: 7

The second number is: 5

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a;
6      cout << "Enter your number : ";
7      cin >> a;
8      int b = 100 - (a % 2) * 93;
9      cout << "result is : " << b << endl;
10     return 0;
11 }
```

```

int a,b,c;
cout<<"Enter your 3 Numbers : ";
cin>>a>>b>>c;
if (a<b && a<c)
{
    cout <<a;
    if (c<b)
    {
        cout <<c<<b;
    }
    else
    {
        cout <<b<<c;
    }
}
if (b<c && b<a)
{
    cout <<b;
    if (a<c)
    {
        cout <<a<<c;
    }
    else
    {
        cout <<c<<a;
    }
}
if (c<b && c<a)
{
    cout <<c;
    if (a<b)
    {
        cout <<a<<b;
    }
    else
    {
        cout <<b<<a;
    }
}

```





```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int A, B;
6      cin >> A >> B;
7      cout << ((1 + B) / 2) * (A * A) + ((1 - B) / 2) * (2 * A + 1) << "\n";
8      return 0;
9  }
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int X, a, b, c, d, e;
6      int g = 0, f = 0;
7      cin >> X;
8      cin >> a >> b >> c >> d >> e;
9      f += (a <= X);
10     f += (b <= X);
11     f += (c <= X);
12     f += (d <= X);
13     f += (e <= X);
14     g = 5 - f;
15     cout << f << g << endl;
16     return 0;
17 }
```

D: > future > Yahia > Untitled-1.cpp > main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      string a,A;
6      int b,B;
7      float c,C;
8      cout<<"What is your 1 name? ";
9      cin>>a;
10     cout<<"His id : ";
11     cin>>b;
12     cout<<"His math exam grade : ";
13     cin>>c;
14     cout<<"What is your 2 name? ";
15     cin>>A;
16     cout<<"His id : ";
17     cin>>B;
18     cout<<"His math exam grade : ";
19     cin>>C;
20     cout<<"Students grades in maths\n"<<a<<" (with id : "<<b<<")got grade : "<<c<<endl;
21     cout<<A<<" (with id : "<<B<<")got grade : "<<C<<endl;
22     cout<<"Average grade : "<<(c+C)/2;
23
24     return 0;
25 }
```

D: > future > Yahia >  Untitled-1.cpp >  main()



```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int n;
6      cout << "Enter your number: ";
7      cin >> n;
8      int A = (n / 1000) % 10;
9      cout << "The 4th digit: " << A << endl;
10     return 0;
11 }
```

D: > future > Home work > Errors > #Home work 1.cpp > main()


```
1  #include <iostream>
2  // اول خطأ كان متعلق العلامة
3  // نسي io
4  using namespace std;
5  // كاتب الحروف كابتل ونسي السمى كولون
6
7  //cout <<"work smart not hard\n";
8  //main مَش حاطط الكود داخل
9
10
11 int main() {
12     // كان فيه حرقين كابتل
13
14     cout << "Children must be taught how to think, not what to think";
15     // سيمى كولون
16     cout << "We worry about what a child will become "<<"tomorrow"<<"", yet we forget that he is someone today\n";
17     //<< <<
18     cout << "Children are not things to be molded"<<"", but are people to be unfolded\n";
19     //<
20     cout << "Each day of our lives we make deposits in the memory banks of our children. "<<endl;
21     // نسي l
22     //""
23     cout << "It is easier to build strong children than to repair broken men"<<"\n";
24     // "" <<<
25     cout << "Children need models rather than critics\n";
26     // >>
27     cout<<"Children have never been very good at listening to their elders, but they have never failed to imitate them";
28     // حرف c
29     cout<< "Children are our most valuable resource\n";
30     //<
31     return 0;
32 }
```

D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      double a, b, c;
6      cout << "Enter Your 2 number : ";
7      cin >> a >> b;
8      c =(a / b);
9      | int d = (int)c;
10     cout << "The result is : " << (( c - d) * b) << endl;
11
12     return 0;
13 }
```

D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      float a, b, c , d;
6      cout << "Enter the first number: ";
7      cin >> a;
8      cout << "Enter the second number: ";
9      cin >> b;
10     cout << "Enter the third number: ";
11     cin >> c;
12     d=a;
13     a = b;
14     cout << "The first number is: " << a << endl;
15     b = c;
16     cout << "The second number is: " << b << endl;
17     c = d;
18     cout << "The third number is: " << c << endl;
19
20     return 0;
21 }
```


D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int num = 0;
6      ++num;
7      num *= 10;
8      num += 2;
9      num = num * 10;
10     num += 3;
11     num = num * 10 + 4;
12     num = 5 + num * 10;
13     num = (num * 10 + 6) * 10 + 7;
14     num = 5 * num * 2 + 1 + 5 + 2 + 1;
15     cout << num << "\n";
16     return 0;
17 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

13
21
34

PS C:\Users\HP> ^C

PS C:\Users\HP>

PS C:\Users\HP> & 'c:\Users\HP\.vscode\extensions\ms-vscode.cpptools-1.23.6-win32-x64\debugAdap
ters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-v5bbxqee.1aj' '--stdout=Micros
oft-MIEngine-Out-cfr3ebh4.zjp' '--stderr=Microsoft-MIEngine-Error-hhcwyfrd.a4a' '--pid=Microsoft
-MIEngine-Pid-txiu4mzg.fil' '--dbgExe=C:\Program Files\CodeBlocks\MinGW\bin\gdb.exe' '--interpre
ter=mi'

12345679

PS C:\Users\HP> |


```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a, b;
6      cin >> a;
7      b =a ;
8      cout << "Enter your number : ";
9      cin >> a; if (a > b) a = b;
10     cin >> a; if (a > b) a = b;
11     cin >> a; if (a > b) a = b;
12     cin >> a; if (a > b) a = b;
13     cin >> a; if (a > b) a = b;
14     cin >> a; if (a > b) a = b;
15     cin >> a; if (a > b) a = b;
16     cin >> a; if (a > b) a = b;
17     cin >> a; if (a > b) a = b;
18     cout << "The largest number is : " << a << endl;
19     return 0;
20 }
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int N, a, b;
6      cin >> N;
7      cin >> a;
8      b = a;
9      if (N > 1) { cin >> a; if (a > b) b = a; }
10     if (N > 2) { cin >> a; if (a > b) b = a; }
11     if (N > 3) { cin >> a; if (a > b) b = a; }
12     if (N > 4) { cin >> a; if (a > b) b = a; }
13     if (N > 5) { cin >> a; if (a > b) b = a; }
14     if (N > 6) { cin >> a; if (a > b) b = a; }
15     if (N > 7) { cin >> a; if (a > b) b = a; }
16     if (N > 8) { cin >> a; if (a > b) b = a; }
17     if (N > 9) { cin >> a; if (a > b) b = a; }
18     if (N > 10) { cin >> a; if (a > b) b = a; }
19     cout << b << endl;
20     return 0;
21 }
```

```

1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int num1, num2, num3;
6      num1 = 0, num2 = 1, num3 = num1 + num2, cout << num3 << "\n";
7      num1 = num2, num2 = num3, num3 = num1 + num2, cout << num3 << "\n";
8      num1 = num2, num2 = num3, num3 = num1 + num2, cout << num3 << "\n";
9      num1 = num2, num2 = num3, num3 = num1 + num2, cout << num3 << "\n";
10     num1 = num2, num2 = num3, num3 = num1 + num2, cout << num3 << "\n";
11     num1 = num2, num2 = num3, num3 = num1 + num2, cout << num3 << "\n";
12     num1 = num2, num2 = num3, num3 = num1 + num2, cout << num3 << "\n";
13     num1 = num2, num2 = num3, num3 = num1 + num2, cout << num3 << "\n";
14     return 0;
15 }

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

```

oft-MIEngine-Out-cvc3csy0.zaq' '--stderr=Microsoft-MIEngine-Error-1a4jg2hn.jrb' '--pid=Microsoft
-MIEngine-Pid-x40bcnib.uwr' '--dbgExe=C:\Program Files\CodeBlocks\MinGW\bin\gdb.exe' '--interpre
ter=mi'



```

```

1
2
3
5
8
13
21
34

```

PS C:\Users\VRU>

D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      double a, b, c;
6      cout << "Enter Your 2 number : ";
7      cin >> a >> b;
8      c =(a / b);
9      int d = (int)c;
10     cout << "The result is : " << ( c - d) << endl;
11     return 0;
12 }
```

D:\> future > Yahia > C++ Untitled-1.cpp > main()

```
1  include <iostream>
2  using namespace std;
3
4  int main() {
5      int nb, ng, nt;
6      cout << "Enter number of boys : ";
7      cin >> nb;
8      cout << "Enter number of girls : ";
9      cin >> ng;
10     cout << "Enter number of teachers : ";
11     cin >> nt;
12     cout << "nb greater than 25: " << (nb > 25) << "\n";
13     cout << "ng less than or equal to 30: " << (ng <= 30) << "\n";
14     cout << "(nb > 20 and nt > 2) or (ng > 30 and nt > 4): " << ((nb > 20 && nt > 2) || (ng > 30 && nt > 4)) << "\n";
15     cout << "Either nb < 60 or ng < 70: " << (nb < 60 || ng < 70) << "\n";
16     cout << "Neither nb >= 60 nor ng >= 70: " << (!(nb >= 60) && !(ng >= 70)) << "\n";
17     cout << "nb is 10 more students than ng: " << (nb == ng + 10) << "\n";
18     cout << "Difference between nb and ng is more than 10 or nt > 5: " << ((nb - ng) > 10 || nt > 5) << "\n";
19     cout << "Either nb is 10 more students than ng or ng is 15 more students than nb: " << (nb == ng + 10 || ng == nb + 15) << "\n";
20
21     return 0;
22 }
```

D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int X, s1, e1, s2, e2, s3, e3, a = 0;
6
7      cin >> X;
8      cin >> s1 >> e1 >> s2 >> e2 >> s3 >> e3;
9      if (s1 <= X && X <= e1) a++;
10     if (s2 <= X && X <= e2) a++;
11     if (s3 <= X && X <= e3) a++;
12
13     cout << a << endl;
14     return 0;
15 }
```

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      int a;
6      cout << "Enter your number : ";
7      cin >> a;
8      int b = 100 - (a % 2) * 93;
9      cout << "result is : " << b << endl;
10     return 0;
11 }
```


D: > future > Yahia >  Untitled-1.cpp >  main()

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      float a, b, c;
6      cout << "Enter the first number: ";
7      cin >> a;
8      cout << "Enter the second number: ";
9      cin >> b;
10     c=b;
11     cout << "The first number is: " << c << endl;
12     c=a;
13     cout << "The second number is: " << c << endl;
14
15     return 0;
16 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

PS C:\Users\HP> ^C

PS C:\Users\HP>

PS C:\Users\HP> & 'c:\Users\HP\.vscode\extensions\ms-vscode.cpptools-1.23.6-win32-x64\debugAdapters\bin\WindowsDebugLauncher.exe' '--stdin=Microsoft-MIEngine-In-ranijdmt.ai0' '--stdout=Microsoft-MIEngine-Out-3ezuuhl0.2em' '--stderr=Microsoft-MIEngine-Error-duvj1b4m.jxg' '--pid=Microsoft-MIEngine-Pid-ggkimnkk.swt' '--dbgExe=C:\Program Files\CodeBlocks\MinGW\bin\gdb.exe' '--interpreter=mi'

Enter the first number: 5

Enter the second number: 7

The first number is: 7

The second number is: 5