```
#include <iostream>
#include <cstdlib>
using namespace std;
int main() {
    int num1, num2, largerNum;
    num1 = num2 = largerNum = 0;
    cout << "Please enter 2 numbers" << endl;</pre>
    cout << "Number 1:: ";</pre>
    cin >> num1;
    cout << num1 << endl;</pre>
    cout << "Number2:: ";</pre>
    cin >> num2;
    cout << num2 << endl;</pre>
    largerNum = (num1 < num2)? num2 : num1;</pre>
    cout << "The larger number is: " << largerNum << endl;</pre>
    cout << "Good Bye!";</pre>
    return 0;
```

```
edit
                 download
        fork
                                                                                                copy
    1.
         /*
             @title Lab 1-1
    2.
                                                                                                                                    ı't load
    3.
             @description Write a program that asks the user to enter two numbers. The program should use the conditional opera
         tor/expression to determine which number is the smaller and which is the larger of the two. [2 points]
    4.
             @author Aryan Gupta
             @version 1.2
    5.
    6.
    7.
         #include <iostream>
    8.
    9.
         #include <cstdlib>
   10.
   11.
         using namespace std;
   12.
   13.
         int main() {
   14.
             //instantize vars
   15.
             int num1, num2, largerNum;
             num1 = num2 = largerNum = 0;
   16.
   17.
             //ask numbers from user
   18.
   19.
             cout << "Please enter 2 numbers" << endl;</pre>
   20.
   21.
             cout << "Number 1:: ";</pre>
   22.
             cin >> num1;
             cout << num1 << endl;</pre>
   23.
   24.
             cout << "Number2:: ";</pre>
   25.
   26.
             cin >> num2;
   27.
             cout << num2 << end1;</pre>
   28.
   29.
             //calculate larger number
   30.
             largerNum = (num1 < num2)? num2 : num1;</pre>
   31.
   32.
             //output larger Number
             cout << "The larger number is: " << largerNum << endl;</pre>
   33.
   34.
             cout << "Good Bye!";</pre>
   35.
   36.
             return 0;
   37. }
```

```
32. //output larger Number
33. cout << "The larger number is: " << largerNum << end1;
34. cout << "Good Bye!";
35.
36. return 0;
37. }

Success comments (0)

stdin copy

10

4

stdout copy

Please enter 2 numbers

Number 1:: 10

Number 2:: 4

The larger number is: 10

Good Bye!
```

```
#include <iostream>
#include <cstdlib>
using namespace std;
int main() {
    int num = 0;
    cout << "Please enter a number between 97 and 122" << endl;</pre>
    cout << ":: ";
    cin >> num;
    cout << num << endl;</pre>
    cout << "That number in ASCII is: ";</pre>
    switch(num) {
         case 97:
             cout << "a" << endl; break;</pre>
         case 98:
             cout << "b" << endl; break;</pre>
         case 99:
             cout << "c" << endl; break;</pre>
         case 100:
             cout << "d" << endl; break;</pre>
         case 101:
             cout << "e" << endl; break;</pre>
         case 102:
             cout << "f" << endl; break;</pre>
         case 103:
             cout << "g" << endl; break;</pre>
         case 104:
             cout << "h" << endl; break;</pre>
         case 105:
             cout << "i" << endl; break;</pre>
         case 106:
             cout << "j" << endl; break;</pre>
         case 107:
             cout << "k" << endl; break;</pre>
         case 108:
             cout << "l" << endl; break;</pre>
         case 109:
             cout << "m" << endl; break;</pre>
```

```
case 110:
         cout << "n" << endl; break;</pre>
    case 111:
         cout << "o" << endl; break;</pre>
    case 112:
         cout << "p" << endl; break;</pre>
    case 113:
         cout << "q" << endl; break;</pre>
    case 114:
         cout << "r" << endl; break;</pre>
    case 115:
         cout << "s" << endl; break;</pre>
    case 116:
         cout << "t" << endl; break;</pre>
    case 117:
         cout << "u" << endl; break;</pre>
    case 118:
        cout << "v" << endl; break;</pre>
    case 119:
         cout << "w" << endl; break;</pre>
    case 120:
         cout << "x" << endl; break;</pre>
    case 121:
         cout << "y" << endl; break;</pre>
    case 122:
         cout << "z" << endl; break;</pre>
    default:
         cout << endl << "You dont follow directions do you? But guess what, I'm smarter</pre>
         than you" << endl;
         cout << "That number is " << (char)num << " in ASCII" << endl;</pre>
         break;
}
return 0;
```

```
edit
        fork
                 download
                                                                                                copy
      /*
 1.
  2.
           @title Lab 1-2
           @description Write a program that asks the user to enter a number within the range of numbers equivalent to the low
 3.
       wercase alphabet. Use a switch statement to display the alphabet version of that number. [5 points]
  4.
           @author Aryan Gupta
           @version 1.1
  5.
 6.
  7.
       #include <iostream>
 8.
       #include <cstdlib>
 9.
10.
11.
       using namespace std;
12.
13.
       int main() {
           //instansize vars
14.
15.
           int num = 0;
16.
17.
           //get num
18.
           cout << "Please enter a number between 97 and 122" << endl;</pre>
           cout << ":: ";
19.
20.
           cin >> num;
21.
           cout << num << endl;</pre>
22.
23.
           //default output
           cout << "That number in ASCII is: ";</pre>
24.
25.
           //convert
           switch(num){
26.
27.
                case 97:
                    cout << "a" << endl; break;</pre>
28.
29.
                case 98:
30.
                    cout << "b" << endl; break;</pre>
31.
                case 99:
32.
                    cout << "c" << endl; break;</pre>
33.
                case 100:
                    cout << "d" << endl; break;</pre>
34.
35.
                case 101:
36.
                    cout << "e" << endl; break;</pre>
37.
                case 102:
                    cout << "f" << endl; break;</pre>
38.
39.
                case 103:
40.
                    cout << "g" << endl; break;</pre>
41.
                case 104:
42.
                    cout << "h" << endl; break;</pre>
43.
                case 105:
                    cout << "i" << endl; break;</pre>
44.
45.
                case 106:
46.
                    cout << "j" << endl; break;</pre>
47.
                case 107:
48.
                    cout << "k" << endl; break;</pre>
49.
                case 108:
50.
                    cout << "l" << endl; break;</pre>
51.
                case 109:
                    cout << "m" << endl; break;</pre>
52.
53.
                case 110:
```

```
54.
                    cout << "n" << endl; break;</pre>
55.
               case 111:
                    cout << "o" << endl; break;</pre>
56.
57.
               case 112:
                    cout << "p" << endl; break;</pre>
58.
59.
               case 113:
                   cout << "q" << endl; break;</pre>
60.
61.
               case 114:
62.
                   cout << "r" << endl; break;</pre>
63.
               case 115:
                    cout << "s" << endl; break;</pre>
64.
65.
               case 116:
                   cout << "t" << endl; break;</pre>
66.
67.
               case 117:
68.
                    cout << "u" << endl; break;</pre>
               case 118:
69.
70.
                    cout << "v" << endl; break;</pre>
71.
               case 119:
72.
                   cout << "w" << endl; break;</pre>
73.
               case 120:
74.
                    cout << "x" << endl; break;</pre>
75.
               case 121:
                    cout << "y" << endl; break;</pre>
76.
77.
               case 122:
                    cout << "z" << endl; break;</pre>
78.
79.
               default:
80.
                    //for reals tho, so much work and processing power
81.
                    cout << endl << "You dont follow directions do you? But guess what, I'm smarter than you" << endl;</pre>
82.
                    cout << "That number is " << (char)num << " in ASCII" << endl;</pre>
83.
                    break;
84.
          }
85.
86.
          //for those that want to know an easier way
87.
          //that whole switch statement can be simplifyed to this one line:
          //cout << (char)num << endl;</pre>
88.
89.
          return 0;
90. }
```

```
Success

stdin

copy

106

stdout

Copy

Please enter a number between 97 and 122
:: 106

That number in ASCII is: j
```

ı't load

http://ideone.com/JIHYHV

```
#include <iostream>
#include <cstdlib>
#include <cmath>
using namespace std;
int main() {
    const double PENNY = 0.01;
    const double NICKEL = 0.05;
    const double DIME = 0.10;
    const double QUARTER = 0.25;
    int pennies = 0;
    int nickels = 0;
    int dimes = 0;
    int quarters = 0;
    double total = 0.00;
    cout << "Please input the amount of each coin" << endl;</pre>
    cout << "Pennies:: ";
    cin >> pennies;
    cout << pennies << endl;</pre>
    cout << "Nickels:: ";</pre>
    cin >> nickels;
    cout << nickels << endl;</pre>
    cout << "Dimes:: ";</pre>
    cin >> dimes;
    cout << dimes << endl;</pre>
    cout << "Quarters:: ";</pre>
    cin >> quarters;
    cout << quarters << endl;</pre>
    total = (double) pennies * PENNY
```

```
edit
        fork
                download
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      /*
 1.
 2.
           @title Lab 1-3
 3.
           @description Create a change-counting game that asks the user to enter what coins to use to make exactly one idobat
      r. The program should ask the user to enter the number of pennies, nickels, dimes, and quarters. If the total value of
        the coins inserted is equal to one dollar the program should congratulate the user for winning the game. Otherwise, t
      he program should display a message indicating whether the amount entered was more or less than one dollar. Use consta
      nt variables to hold the coin values. [5 points]
 4.
           @author Aryan Gupta
 5.
           @version 1.1
 6.
 7.
 8.
      #include <iostream>
 9.
      #include <cstdlib>
10.
      #include <cmath>
11.
12.
      using namespace std;
13.
14.
      int main() {
15.
           //instantize constants
16.
           const double PENNY = 0.01;
17.
           const double NICKEL = 0.05;
           const double DIME = 0.10;
18.
19.
           const double QUARTER = 0.25;
20.
21.
           //instantize vars
22.
           int pennies = 0;
23.
           int nickels = 0;
24.
           int dimes = 0;
25.
           int quarters = 0;
26.
27.
           double total = 0.00;
28.
29.
           //ask user
30.
           cout << "Please input the amount of each coin" << endl;</pre>
31.
32.
           cout << "Pennies:: ";</pre>
33.
           cin >> pennies;
34.
           cout << pennies << endl;</pre>
35.
           cout << "Nickels:: ";</pre>
36.
37.
           cin >> nickels;
38.
           cout << nickels << endl;</pre>
39.
           cout << "Dimes:: ";</pre>
40.
41.
           cin >> dimes;
42.
           cout << dimes << endl;</pre>
43.
44.
           cout << "Quarters:: ";</pre>
45.
           cin >> quarters;
46.
           cout << quarters << endl;</pre>
47.
48.
           //calculate (add up all the values)
49.
           total = (double)pennies * PENNY
50.
                 + (double)nickels * NICKEL
51.
                 + (double)dimes
                                      * DIME
```

Congrats! You win

```
+ (double)quarters * QUARTER;
52.
53.
54.
          //output
55.
          if(fabs(total - 1.0) < .001)</pre>
              cout << "Congrats! You win" << endl;</pre>
56.
          else if((total - 1.0) > 0.0)
57.
              cout << "Sorry. You lose. You had " << (total - 1.0) << " dollars too much";</pre>
58.
59.
          else if((total - 1.0) < 0.0)
60.
              cout << "Sorry. You lose. You need " << (1.0 - total) << " dollars more";</pre>
61.
62.
          return 0;
63. }
```

```
Success
                                                                                                               comments (0)
stdin
                                                                                       сору
10
1
1
3
                                                                                                                        ı't load
stdout
                                                                                       copy
Please input the amount of each coin
Pennies:: 10
Nickels:: 1
Dimes:: 1
                                                                                                                        ı't load
Quarters:: 3
```

http://ideone.com/IVy7Ir 2/2

```
#include <iostream>
#include <cstdlib>
using namespace std;
int main() {
    char letter = ' ';
    cout << "Please enter a number";</pre>
    cin >> num;
    cout << num << endl;</pre>
    cout << "Please enter a letter";</pre>
    cout << ":: ";
    cin >> letter;
    cout << letter << endl;</pre>
    while(letter <= 'z' || letter <= 'Z') {</pre>
        cout << letter << " :: " << num << endl;</pre>
        letter++;
        num++;
    return 0;
```

```
edit
        fork
                download
                                                                                             copy
      /*
 1.
 2.
           @title Lab 1-4
           @description Write code that lets the user enter a number and a letter. Both should be increased until the end load
 3.
       the alphabet is reached and printed. Use a while loop. [3 points]
 4.
           @author Aryan Gupta
           @version 1.3
 5.
 6.
 7.
      #include <iostream>
 8.
      #include <cstdlib>
 9.
10.
      using namespace std;
11.
12.
13.
      int main() {
           //instantize vars
14.
15.
           int num = 0;
           char letter = ' ';
16.
17.
18.
           //ask user
19.
           cout << "Please enter a number";</pre>
20.
           cout << ":: ";
21.
           cin >> num;
22.
           cout << num << endl;</pre>
23.
24.
           cout << "Please enter a letter";</pre>
25.
           cout << ":: ";
           cin >> letter;
26.
27.
           cout << letter << endl;</pre>
28.
           //output
29.
30.
           while(letter <= 'z' || letter <= 'Z') {</pre>
               cout << letter << " :: " << num << endl;</pre>
31.
32.
               letter++;
33.
               num++;
34.
           }
35.
36.
           return 0;
37.
```

```
Success
                                                                                                                   comments (0)
  stdin
                                                                                           copy
  6
  ٧
                                                                                                                           ı't load
  stdout
                                                                                           copy
  Please enter a number:: 6
  Please enter a letter:: v
  v :: 6
                                                                                                                           ı't load
  w :: 7
  x :: 8
 y :: 9
r z :: 10
```

```
%
@title Lab 1-5
@description ??
@author Aryan Gupta
@version 1.0
*/

#include <cstdlib>
#include <iostream>

using namespace std;

int main() {
    cout << "Do part 1" << endl;
    cout << "Do part 2" << endl;
    cout << "Do part 3" << endl;
    cout << "Do part 4" << endl;
    cout << "Do part 4" << endl;
    cout << "Do part 6" << endl;
    cout << "Do part 7" << endl;
    cout << "Do part 7" << endl;
    cout << "Do part 6" << endl;
    cout << "PROFIT" << endl;
    cout << "PROFIT" << endl;
    cout << "PROFIT" << endl;
    return 0;
}</pre>
```

```
edit
        fork
                 download
                                                                                                сору
      /*
  1.
  2.
           @title Lab 1-5
  3.
           @description ??
                                                                                                                                     ı't load
           @author Aryan Gupta
  4.
           @version 1.0
  5.
       */
  6.
  7.
  8.
       #include <cstdlib>
  9.
      #include <iostream>
10.
11.
       using namespace std;
12.
13.
      int main() {
14.
           cout << "Do part 1" << endl;</pre>
15.
           cout << "Do part 2" << endl;</pre>
           cout << "Do part 3" << endl;</pre>
16.
17.
           cout << "Do part 4" << endl;</pre>
18.
           cout << "Make a joke" << endl;</pre>
           cout << "Do part 6" << endl;</pre>
19.
20.
           cout << "??" << endl;</pre>
21.
           cout << "PROFIT" << endl;</pre>
22.
23.
           return 0;
24. }
```

Success comments (0) stdin copy Standard input is empty stdout copy ı't load Do part 1 Do part 2 Do part 3 ı't load Do part 4 Make a joke Do part 6 ??

ł

PROFIT

```
#include <iostream>
#include <cstdlib>
using namespace std;
int main() {
   bool prime = true;
    for(int o = 3; o <=100; o++) {</pre>
        for (int i = 2; i < 0; i++)
            if(0 % i == 0) {
                prime = false;
                break;
        if (prime)
            cout << o << ", ";
        prime = true;
    return 0;
```

```
edit
        fork
                download
                                                                                         copy
      /*
 1.
  2.
          @title Lab 1-6
          @description Write a program that finds and prints all of the prime numbers between 3 and 100. A prime number tipat
 3.
       number that can only be divided by one and itself (i.e. 3, 5, 7, 11, 13...) [5 points]
 4.
          @author Aryan Gupta
          @version 1.3
 5.
 6.
 7.
      #include <iostream>
 8.
      #include <cstdlib>
 9.
10.
11.
      using namespace std;
12.
13.
      int main() {
14.
          //instantize vars
15.
          bool prime = true;
16.
17.
          //calculate and output
18.
          for(int o = 3; o <=100; o++) {
              for(int i = 2; i < o; i++)
19.
                   if(o % i == 0) {
 20.
21.
                       prime = false;
 22.
                       break;
                   }
23.
 24.
              if(prime)
 25.
                   cout << o << ", ";
              prime = true;
26.
27.
          }
28.
 29.
          return 0;
 30.
```

Success comments (0)

stdin copy
Standard input is empty

stdout copy
3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97,

ı't load

ı't load