Discussion 10.18.19

* While loop

int x = 0;

while (x<10)

{

[code]

x++;

}

* For loop – implements initializer and next iteration changes

for (initializer; stay-in-loop condition; prepare-for-next iteration)

{  
[code]

}

* Break
  + Exit loop early
  + Terminate the enclosing loop or switch statement
  + Only break the closest for loop
    - Ex: for ()

{

for ()

{

break;

}

}

* + Ways to solve -> return statements

Coding

#include <iostream>

#include <string>o

using namespace std;

int main() {

string password = "pranked";

string p;

for (int i = 1; i <= 3; i++) {

cout << "Enter the password: ";

getline(cin, p);

if (p == password)

{

cout << "Noice";

return 0;

}

else

cout << "Wrong password! " << (3 - i) << " tries left.\nPassword hints: RIP" << endl << endl;

}

cout << "Acccount locked.";

return 1;

}

do {

cout << "Enter the password: ";

getline(cin, p);

} while (p != "pass") //C++ able to compare string with == and !=

LA WS #3

1.)

int n;

cin >> n;

for (int c = 3; c < n; c++)

{

bool isPrime = true;

for (int x = 2; x < c; x++) // x < c

{

if (c % x == 0) // = -> ==

isPrime = false;

}

if (isPrime)

cout << c << " "; //print c, not n

}

Writing:

1.)

#include <iostream>

using namespace std;

int main () {

}

2.)

#include <iostream>

using namespace std;

int main () {

cout << “How many numbers do you want to average? “;

int num;

cin >> num;

int temp;

int sum;

for (int c = 0; c < num; c++)

{

cout << “Number: “;

cin << temp;

sum += temp;

}

cout << “The average is “ << (1.0\*sum)/num << endl;

}

3.)

#include <iostream>

using namespace std;

int main () {

int num;

cin >> num;

int z = 0;

for (int c = 0; c < num; c++)

{

for (int a = 0; a < num; a++)

{

if (a <= c) {

cout << c + a << " ";

z++;

}

else

cout << ". ";

}

cout << endl;

}

}

6.)

int input;

cin >> input;

int c;

if (input < 1)

cout << “Error” << endl;

else if (input == 1)

cout << 0;

else {

int min = 2;

while (min <= input)

{

min \*= 2;

c++;

}

cout << c <<endl;  
}

int input;

cin >> input;

int c = 0;

if (input < 1)

cout << "Error" << endl;

else if (input == 1)

cout << 0;

else {

int max = 2;

while (max <= input)

{

max \*= 2;

c++;

}

cout << c << endl;

}