**Quiz -1 practice**

1. What is the index of the first element of an array?

Ans: 0

1. What is the index of the last element of any array that holds 3 values?

Ans: 2

1. What happens when you access an element of the array that does not

exist?

Ans: segment fault, the process will be killed.

1. What are the sizes (in bytes) of the following data type?

int => 4

float => 4

double => 8

string => 28

char => 1

“Hello World” => 12

1. If you want to create a function which take 2 float parameters and return the sum (float type) of these 2 integers, please write the prototype: (function name could be anything you like)

Ans: float getSum(float a, float b);

1. Continue of question 5, implement the function

Ans:

float getSum(float a, float b)

{

return a + b;

}

1. int main(){

int a = 10, b = 100;

}

Write a function (function name: change) which change variable a to 0.5a and change variable b to 2b without any return value. (Consider pass by reference)

Void change (int &x, int &y)

{

X \*= 0.5;

Y \*= 2;

}

1. const double PI = 3.14

#define PI 4.13

What’s the different of these two ?

What will be the output of:

Cout << PI << endl;

Const double PI: The value store in variable PI can not be changed

#define PI: Always replace PI by the thing you define. (4.13 in this case)

Output is 4.13

1. 1 word = 32/64 bits ? , 1 byte = 8 bits ?
2. int main()

{

const int n = 100;

n = n / 10;

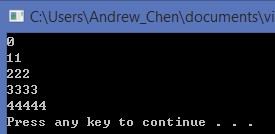
cout << n << endl;

}

What’s the output? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Error because n is a constant int which can not be changed.

1. Write a nested for loop to output the content below:



for (int i = 0; i < 5; i++)

{

for (int j = 0; j <= i; j++)

{

cout << i;

}

cout << endl;

}

Check this out (the hint from professor’s github) maybe you can find something important to know before the quiz.

<https://github.com/2015-fall-csuf-benblazak-cpsc-121/course-materials/blob/master/quizzes/quiz-01.tex>