ENGG1340 Computer Programming II

**Module 6 Checkpoint Exercise**

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**Instructions:**

For each single question or each group of questions in the Checkpoint exercise, please type your answer right after the question in this Word document.

**Checkpoint 6.1 (Please submit your answer to Moodle)**

There may be error(s) in the following statements. Correct the error(s) if any, if no error, please write “no error”.

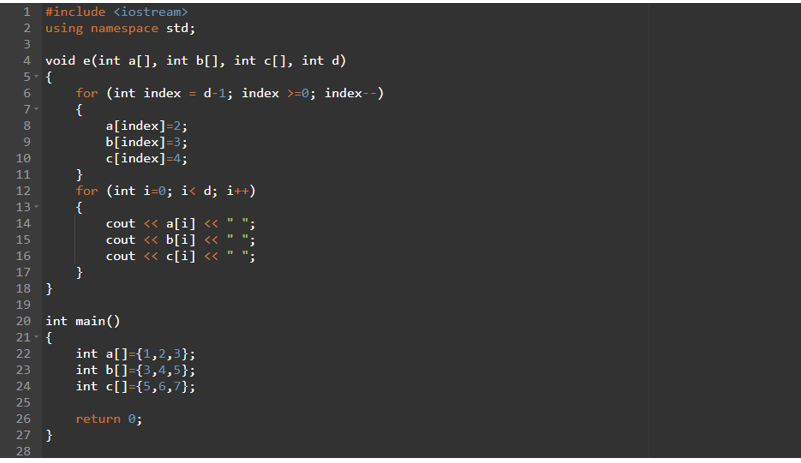
a) double a [1] [2] = {{2,3}, {3,2}}; it should be a[2][2]

b) double b [1] [2] = {{3}}; no error

b) char b[1000] = "string"; no error

**Checkpoint 6.2 (Please submit your answer to Moodle)**

Consider the following code:



a) What is the output if the above program is executed? (if no output, please write “no output”) no output

b) What is the output if e(a,b,c,3); is added to line 25? (if no output, please write “no output”) 2 3 4 2 3 4 2 3 4

c) What is the output if e(a,b,c,5); is added to line 25? (if no output, please write “no output”)

\*\*\* stack smashing detected \*\*\*: <unknown> terminated

[1] 10218 abort (core dumped) ./a.out

**Checkpoint 6.3 (Please submit your answer to Moodle)**

Assume a 3D double array x is defined as

double x[2][2][3] = { { {3, 4, 2}, {0, -3, 9} }, { {13, 4, 56}, {5, 9, 3}}}; Write a program that would find the maximum and minimum values in this 2-by-2-by-3 double array x. Print the maximum and minimum value after they are found.

#include<iostream>

using namespace std;

int main(){

double x[2][2][3] = { { {3, 4, 2}, {0, -3, 9} }, { {13, 4, 56}, {5, 9, 3}}};

int max = x[0][0][0];

int min = max;

for(int i=0;i<2;i++){

for(int j=0;j<2;j++){

for(int k=0;k<3;k++){

if(max<x[i][j][k]) max = x[i][j][k];

else if(min>x[i][j][k]) min = x[i][j][k];

}

}

}

cout<<"min "<<min<<endl;

cout<<"max "<<max<<endl;

}