# COMP2113 Programming Technologies /

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 exerc ise, please type your answer right after the question in this Word documen t.

### 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] =  $\{\{2,3\}, \{3,2\}\}$ ; double a[2][2] =  $\{\{2,3\}, \{3,2\}\}$ ;
- b) double b [1] [2] =  $\{\{3\}\}$ ; no error
- c) 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, plea se write "no output") no output
- b) What is the output if e(a,b,c,3); is added to line 25? (if no output, pl ease 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 \*\*\*: terminated

Aborted (core dumped)

# 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 the y are found.

```
#include <iostream>
int main (void)
       double x[2][2][3] = \{\{\{3, 4, 2\}, \{0, -3, 9\}\}, \{\{13, 4, 56\}, \{5, 9, 6\}\}\}
3}}};
       double \max = x[0][0][0];
       double min = x[0][0][0];
                           \max = (x[i][j][k] > \max) ? x[i][j][k] : \max;
                           min = (x[i][j][k] < min) ? x[i][j][k] : min;
       std::cout << max << std::endl;</pre>
       std::cout << min << std::endl;</pre>
       return 0;
```