### 程序代写代做 CS编程辅导



# SECYCLAR PSEUTORStive ICT Assignment Project Exam Help

Duration Emairs: This torcos a bb 63 exem.m

QQ: 749389476

#### 程序代写代版公编程辅导

This is the alternative assessment for SEC204. Please note that it forms 50% of the final module mark.

This is a timed exam, you answers in this docume assessment submission

ne. Please read the questions carefully and complete your submit the document on the SEC204 DLE alternative

**Submission Inst** 

This is a closed book exam. Use of notes or reference material (other than the ones provided in this document are strictly not allowed. You may only use the Internet to submit your answers on the DLE module website.

Assignment Project Exam Help

Email: tutorcs@163.com

QQ: 749389476

Questions

1. Identify the software vulnerability that might exist in the following C code and discuss the possible consequences of exploiting it:

```
int main(int arg
        int value
        char bu
                                      sat %p and contains \'%s\'\n", buffer_two, buffer_two);
        strcpy(buffer_two, argv[1]);
                                                                                             8 marks
```

WeChat: cstutorcs

Describe the type of threats you will be able to identify with the STRIDE mnemonic in the Microsoft Security Development Lifecycle.

3. A digital computer's instruction set consists of 50 different operations. All instructions operation code part (opcode) and an address part (allowing for only one address). Each instruction is stored in one word of memory. How would you calculate the number of bits needed for the opcode?

fuitores (a)

4. What security problems can you identify at the following piece of C code?

```
int main(int argc, char *argv[]) {
  char text[1024];
  strcpy(text, argv[1]);
  printf("\nPrinting user-controlled input:\n");
  printf(text);}
```

5 marks

12 marks

2 marks

What security problems can you identify at the following piece of C code? How could you avoid the following authentication mechanism from being exploited?

```
int check_authentication(char *password) {
        int auth flag = 0;
        char password buffer[16];
        strcpy(password_buffer, password);
        if(strcmp(password_buffer, "brillig") == 0)
                auth_flag = 1;
        if(strcmp(password buffer, "outgrabe") == 0)
                auth_flag = 1;
        return auth_flag;
```

5 marks

6. What will be the value of register %ebx after the following program runs?:

```
.section .text
.globl _start
_start:
 nop
```



7. How can the Eff

be exploited in security vulnerabilities?

2 marks

T binary subtraction of 64 – 15, assuming 8-bit signed 8. Which of the foll Two's compliment representation? Select one:

- a. 01000000 + 11110001 = 00110001
- b. 01001000 + 11001111 = 01001111
- c. 01000100 + 1010000 = 101010000 stutores

10000000 + 11110001 = 100110001

1 mark

- 9. Which of the following singular tractile Project Exam Help
  - a. Registers
  - b. None. The access times are very similar
  - c. RAM
  - d. Cache e. USB

Email: tutorcs@163.com

1 mark

10. Describe the difference between big endian and little endian representation.

2 marks

Total: 40 marks

## 程序代寫代數 CS编程辅导



WeChat: cstutorcs

Assignment Project Exam Help

Email: tutorcs@163.com

QQ: 749389476