## Popa & Kao CS 161 Spring 2023 程序低幅低低端编辑 issussion 3

	n 1 C Memo () k the following False and justify your solution. Please feel free to discuss students arou:
Q1.1	Stack canaries
Q1.2	A format-string winerability can allow an attacker to overwrite values below the stack pointer.
Q1.3	ASLR, stack cananas and Schumentide are insufficed to prevent application of the overflow attacks.  Email: tutorcs@163.com
Q1.4	rt answer! What vulnerability would arise if the stack canary was between the return address and the saved frame pointer?
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Q1.5	Assume ASLR is enabled. What vulnerability would arise if the instruction <b>jmp</b> * <b>esp</b> exists in memory?

Question 2 Robin

()

Consider the follow握oo序i成写代做 CS编程辅导

```
void robin(void)
2
       char buf [16]
3
       int i;
4
                                        1, stdin) != 1)
5
       if (fread
6
7
8
       if (fgets
                                         stdin) == NULL
9
10
11
12
```

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Assume that:

• There is no compiler padding or additional saved registers.

- . The provided Assignment on Pilroject Exam Help
- buf is located at memory address 0xffffd8d8
- · Stack canaries are enabled, and all other memory (afety defenses are disabled.
- The stack canary is four completely random bytes (no null byte).

For each subpart, mark whether it is possible to leak the value of the stack canary. If you put possible, provide an input to Line 5 and an input to Line 8 that you'd leak the canary. If the line is not needed for the exploit, you must write "Not needed" in the box.

Write your answer in Python syntax.

Q2.1 (3 min) I	Line 1 https://tuttorcs.com
O Po	ossible
O No	ot possible
Line 5:	
Line 8:	

Q2.2	(5 min) For this subport only, enter an input that allows you to leakly single character from memory andres 0xfiffded. Mark bot possible this is him possible. Line 11 contains printf("%c", buf[i]);
	O Possible O Not pos Line 5:
	Line 8:
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Q2.3	O Possible Assignment Project Exam Help
	O Not postible Line 5: Line 5: Line 5: 163.com
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	https://tutorcs.com
Q2.4	(6 min) Line 11 contains printf(i);.
	O Possible
	O Not possible
	Line 5:
	Line 8:

Assume that:

## 程序代写代做 CS编程辅导

- For your inputs, you may use SHELLCODE as a 16-byte shellcode.
- If needed, you put as OUTPUT, slicing it using Python syntax.
- All x86 instru
- For each prover that:
  - The addr The Later CS 1k method is 0xffffcd84.
  - The addr \_\_\_\_\_\_ is 0x080722d8.

Consider the following runction:

```
int hulk(FILE *f, char *eyes) {
      void (* green projection pointer char buf [32]; echat. cstutorcs
      char str [28];
5
      fread (buf, 1, 32, f);
      printf ( "% sA. ship grument Project Exam Help
6
7
      if (strlen(eyes) > 28) {
          return 0;
                     ail: tutorcs@163.com
10
11
12
      return 1;
13 }
```

The following is the x86 code of void green(void):

```
https://tutorcs.com
```

Assume that ASLR is enabled including the code section, but all other memory safety defenses are disabled.

Q3.1 (3 min) Fill in the following stack diagram assuming that the mogram is passed for executing Line 5, including the arguments of hall (the lable in each complete mother essailly have to be four bytes long).



Q3.2 (10 min) Provide an input to each of the boxes below in order to execute SHELLCOPE ASSIGNMENT Provide a string value for eyes (argument to hulk):

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Provide a string for the contents of the file that is passed in as the f argument of hulk:

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Provide an inparting scord fruit in the S. COM