

HW2.4. Memory Multiple Choice

We've seen in lecture and earlier in the homework that certain parts of memory are protected from direct user access, i.e. you'd most likely segfault core-dump if you try to illegally access memory addresses mapping to those locations.

Q1.1: Which parts of memory can fall under that category? Select all that apply.

☐ (a) Code/Text

☐ (b) Stack

☐ (c) Heap

☐ (d) Data/Static

Select all possible options that apply. ?

Q1.2: What are general reasons such protections exist within a specific process? (We'll discuss this more in the OS/VM section of the course!) Select all that apply.

☐ (a) To protect the user from accidentally modifying code/data they didn't mean to

☐ (b) To ensure separate processes know about each other so they can run simultaneously

☐ (c) To error instead of segfaulting

☐ (d) To properly segfault instead of erroring

☐ (e) To prevent your process from accidentally modifying other unrelated aspects of the system

Select all possible options that apply. ?

Q1.3: Which of the following actions are possible if we were to remove all memory protections for a specific process? Select all that apply.

☐ (a) Change what the program does

☐ (b) Decrease the size of physical memory

☐ (c) Change what other programs stored can do

☐ (d) Change stored data

☐ (e) Change how the system functions

Select all possible options that apply. ?

Save & Grade 20 attempts left

Save only

Additional attempts available with new variants ?

Homework 2

Assessment overview

Total points:

10/100

Score:

10%

Question

Value:

5

History:

Awarded points:

0/5

Report an error in this question

Previous question

Next question

Attached files

No attached files

Attach a file

Attach text