Progress

Mentor

Unit 4 - Week 3

How does an NPTEL online

Course outline

course work?

Week 1

Week 2

Week 3

ASLR (part 1)

O ASLR (part 2)

Relocation

Buffer overreads

Demonstration of Load Time

Demonstration of Position

Quiz : Practice Assignment 3

Independent Code

PLT Demonstration

Quiz : Assignment 3

Week 3 Feedback

Week 4

Week 5

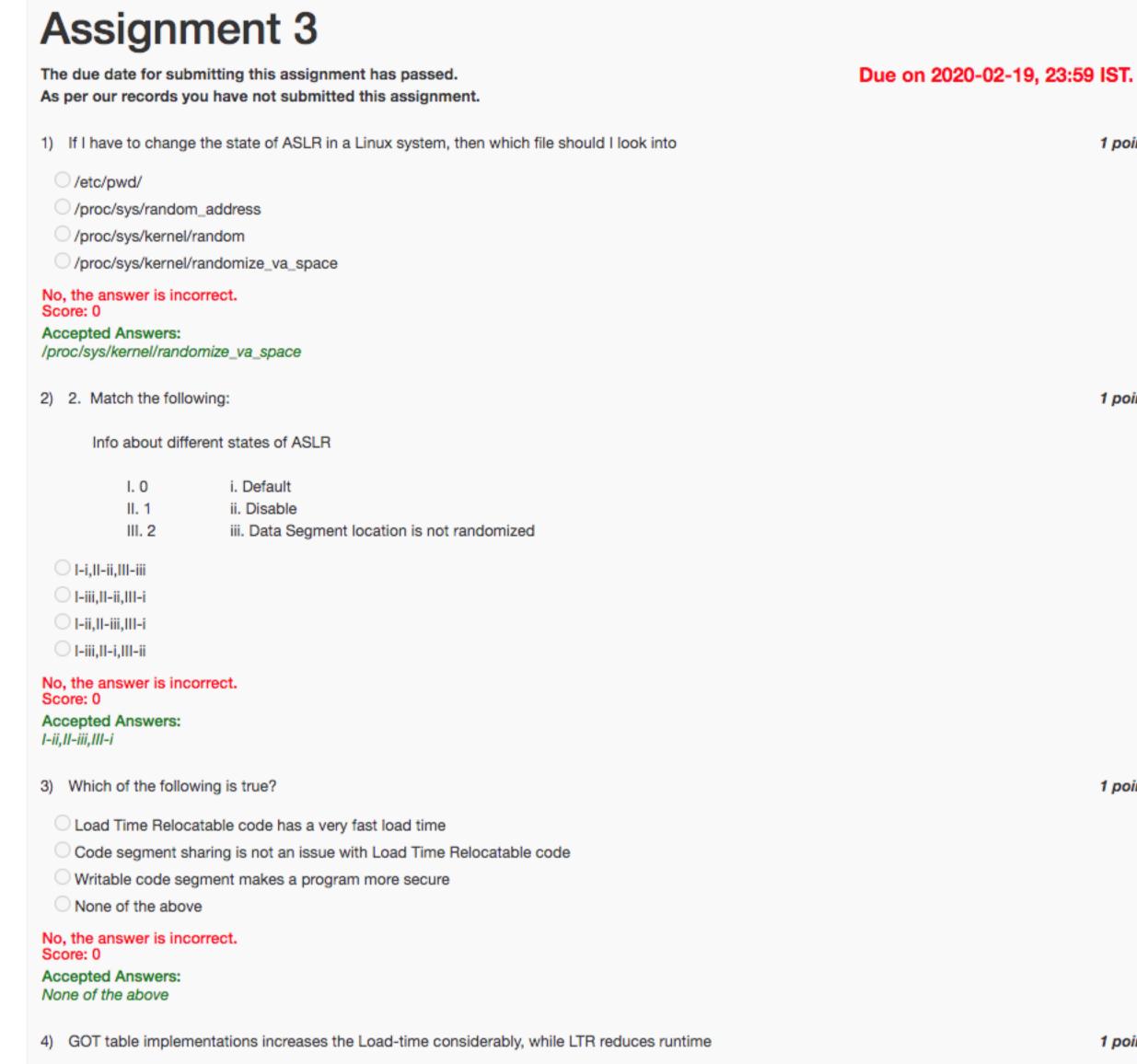
Week 6

Week 7

Week 8

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1 point 1 point 1 point 1 point True False No, the answer is incorrect. Score: 0 Accepted Answers: False 5) Load Time Relocation of Global Data mandatorily requires a PLT as the number of functions in a library are significantly less than the 1 point number of Global Variables. True False No, the answer is incorrect. Score: 0 Accepted Answers: False Read the following Solution and identify what problem it solves 1 point Solution: Lazy binding using PLT Problems. Faster run time access Load time relocation of global Data Not all functions have to be loaded to run a program, so, saves space and time To prevent ASLR from run-time attacks No, the answer is incorrect. Score: 0 Accepted Answers: Not all functions have to be loaded to run a program, so, saves space and time The heartbleed attack could have been avoided if this condition was met 1 point Data Length = Payload Length Data Length <= Payload Length</p> Data length >= Payload length None of the above No, the answer is incorrect. Accepted Answers: Data length >= Payload length 8) I have a system with W^X, Canaries and ASLR implemented, what attack should I use to glean information: 1 point Buffer overflow ROP Return-to-libc Buffer Overreads No, the answer is incorrect. Score: 0 Accepted Answers: **Buffer Overreads** GOT corruption and Return-to-PLT are attacks that can successfully bypass ASLR 1 point True False No, the answer is incorrect. Score: 0 Accepted Answers: True 10) Go through the following code snippet : 0 points #include<stdio.h> #include<string.h> #include <stdlib.h> int main(int argc, char **argv){ char b[]= "access_granted"; char a[]= "User_"; char passcode[]="User_\0access_granted"; int len= atoi(argv[1]); int i=0; while(i<len){ if(a[i]==passcode[i]){ i++; continue; } else { printf("Doesn't match"); return 0; printf("Passcode matched"); Compile : gcc test2.c -o a.out Execute it as ./a.out <length> e.g. ./a.out 5

Find the minimum value of length so that "Doesn't match" will be printed

5

O 10

O 13

O 15

22

Score: 0

22

No, the answer is incorrect.

Accepted Answers: