CSPB 2400 - Park - Computer Systems

<u>Dashboard</u> / My courses / <u>2241:CSPB 2400</u> / <u>22 April - 28 April</u> / <u>Reading Quiz - Chapter 7</u>

Started on	Monday, 15 April 2024, 7:16 PM
State	Finished
Completed on	Monday, 15 April 2024, 7:19 PM
Time taken	3 mins 6 secs
Marks	7.94/8.00
Grade	9.92 out of 10.00 (99%)

Question 1

Partially correct

Mark 0.94 out of 1.00

Identify the symbols listed in the symbol table of the ELF relocatable object files (.o), whether that symbol is defined or undefined, and if defined, then in which section of the corresponding ELF file that the symbol would be defined. **Note: if the symbol is not in the table or not defined in the data section, use '-' to indicate.**

main.c

weight_sum.c

```
extern int *array;
extern int weight_sum();
                                          int *weight2;
int array[] = \{4, 2\};
                                          int weight1=1;
int main(){
                                          int weight_sum() {
                                                   int temp = 0;
    int total;
                                                   weight2 = &weight1;
    total = weight_sum();
    return 0;
                                                   temp += weigth1*arra
}
                                                   temp += *weight2*arr
                                                   return temp;
                                           }
```

main.o



weight_sum.o



 weight_sum
 array
 main
 total
 weight1
 weight2
 temp
 defined
 undefined

 .text
 .data
 .bss
 .rel.text
 .rel.data
 COMMON

You have correctly selected 15.
on 2
ct
3.00 out of 3.00
wo object files are linked together with the command line Id -o p main.o weight_sum.o. Consider the following statements concerning the located addresses of the different object file sections. The notation .section(object.o) refers to the .section (.text, .data, etc) address of e file object.o.
.data(weight_sum.o) < .text(main.o) < .text(weight_sum.o)
) .text(main.o) < .text(weight_sum.o) < .data(weight_sum.o)
i) .text(main.o) < .data(main.o) < .data(weight_sum.o)
y) .data(weight_sum.o) < .data(main.o) < .text(weight_sum.o)
) .data(main.o) < .bss(weight_sum.o) < .bss(main.o)
hich of these statements are correct?
ect one:
a. Only (i) and (iv) are correct
b. Only (ii) is correct
c. Only (ii) and (iii) are correct
d. Only (v) is correct
e. Only (ii), (iii) and (v) are correct
f. None of the above is correct
Your answer is correct.

Question **3**

Correct

Mark 4.00 out of 4.00

Two .o files have been linked together with the command line ld -o p main.o weight_sum.o. Consider the following statements:	
(i) There are no more undefined symbols.	
(ii) The file must be dynamically linked	
(iii) The file is a relocatable object file.	
(iv) The file is an executable object file.	
(v) There might be one undefined symbol.	
(vi) The .bss section consumes no file space.	
Which of these statements are correct?	
Select one:	
a. Only (i) and (iv) are correct	
b. Only (i), (iv) and (vi) are correct	~
c. Only (ii) is correct	
d. Only (i) and (iii) are correct	
e. Only (ii) and (v) are correct	
f. None of the above is correct	
Your answer is correct.	