CSPB 2400 - Park - Computer Systems

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Started on	Friday, 19 January 2024, 4:42 PM
State	Finished
Completed on	Friday, 19 January 2024, 5:09 PM
Time taken	27 mins 20 secs
Marks	24.00/24.00
Grade	**10.00** out of 10.00 (**100**%)

Question **1**

Correct

Mark 4.00 out of 4.00

The C programming language defines different **sizes** for variable types based on the number of bytes used by that variable type. Fill in the table for the types below to indicate the number of bytes used for each variable type.

C Declaration	32-Bit	64-Bit
char	1 ✔	1 ✔
short int	2 ✔	2 ✔
int	4 ✔	4 ✔
long int	4 ✔	8 ✔
long long int	8 ✔	8 ✔
char *	4 ✔	8 ✔
float	4 ✔	4 ✔
double	8 ✔	8 ✔

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Your answer is correct.

Question **2**

Correct

Mark 2.00 out of 2.00

Convert the decimal number **43** into its binary equivalent in an 8-bit word.

Binary =	0	0	1	0	1	0	1	1
	✔	✔	✔	✔	✔	✔	✔	✔

Question **3**

Correct

Mark 2.00 out of 2.00

Convert the decimal number **-35** into its binary equivalent in an 8-bit word.

Binary =	1	1	0	1	1	1	0	1
	✔	✔	✔	✔	✔	✔	✔	✔

Question **4**

Correct

Mark 2.00 out of 2.00

Convert the decimal number **114** into its binary equivalent in an 8-bit word.

Binary =	0	1	1	1	0	0	1	0
	✔	✔	✔	✔	✔	✔	✔	✔

Question **5**

Correct

Mark 2.00 out of 2.00

Convert the decimal number **-77** into its binary equivalent in an 8-bit word.

Binary =	1	0	1	1	0	0	1	1
	✔	✔	✔	✔	✔	✔	✔	✔

Question **6**

Correct

Mark 2.00 out of 2.00

Convert the decimal number **-87** into its binary equivalent in an 8-bit word.

Binary =	1	0	1	0	1	0	0	1
	✔	✔	✔	✔	✔	✔	✔	✔

Question **7**

Correct

Mark 2.00 out of 2.00

Convert the binary number **00001101** into its decimal equivalent assuming an unsigned 8-bit word.

Decimal =   13   ✔

Question **8**

Correct

Mark 2.00 out of 2.00

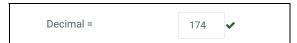Convert the binary number **00001101** into its decimal equivalent assuming a signed 8-bit word.

Decimal =   13   ✔

Question **9**

Correct

Mark 2.00 out of 2.00

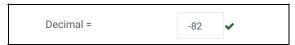Convert the binary number **10101110** into its decimal equivalent assuming an unsigned 8-bit word.

Decimal =   174   ✔

Question **10**

Correct

Mark 2.00 out of 2.00

Convert the binary number **10101110** into its decimal equivalent assuming a signed 8-bit word.

Decimal =   -82   ✔

Question **11**

Correct

Mark 2.00 out of 2.00

Convert the binary number **11111100** into its decimal equivalent assuming a signed 8-bit word.

Decimal =   -4   ✔