

**Started on** Friday, 4 September 2020, 8:47 PM

**State** Finished

**Completed on** Friday, 4 September 2020, 9:26 PM

**Time taken** 38 mins 43 secs

**Marks** 20.00/20.00

**Grade** 10.00 out of 10.00 (100%)

Question 1

Complete

Not graded

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	<input type="text"/>	<input type="text"/>
short int	<input type="text"/>	<input type="text"/>
int	<input type="text"/>	<input type="text"/>
long int	<input type="text"/>	<input type="text"/>
long long int	<input type="text"/>	<input type="text"/>
char *	<input type="text"/>	<input type="text"/>
float	<input type="text"/>	<input type="text"/>
double	<input type="text"/>	<input type="text"/>

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	✓
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## 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	✓
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## 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	✓
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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 =

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 =

