

OCR Computer Science AS Level

1.4.1 Data Types

Flashcards



What data type should be used for
storing a phone number like
07886756443?



What data type should be used for storing a phone number like 07886756443?

String

Numeric types would omit the leading 0.



Which data type stores a collection of characters?



Which data type stores a collection of characters?

String



Add the two binary numbers:

01011011

00111010

Give your answer in decimal



Add the two binary numbers 01011011 and 00111010, giving your answer in decimal

149

$$\begin{array}{r} 01011011 \\ + 00111010 \\ \hline 10010101 \end{array}$$



What is the decimal 45 in binary?

Give your answer as a byte



What is the decimal 45 in binary?

00101101



What is the hexadecimal 2E in decimal?



What is the hexadecimal 2E in decimal?

$$(2 \times 16) + (14 \times 1) = 46$$



What is the hexadecimal 45 in binary?

Give your answer as a byte



What is the hexadecimal 45 in binary?

01000101



Which data type stores
just True and False?



Which data type stores just True and False?

Boolean



What is -5 in sign magnitude binary?

Give your answer as a nybble



What is -5 in sign magnitude binary?

1101



What does the binary 01101100
represent in hexadecimal?



What does the binary 01101100 represent in hexadecimal?

6C



What is the two's complement binary
10101101 in decimal?



What is the two's complement binary 10101101 in decimal?

-83



The binary 0011010000110 is a floating point number with a single-bit sign, 8-bit mantissa and 4-bit exponent.

What is the number in decimal?



What is the number in decimal?

52



Which of the following is not a character?

A: 8

C: %

B: R

D: 43



Which is not a character?

D



The binary 110011000011 is a floating point number with a single-bit sign, 8-bit mantissa and 4-bit exponent.

What is the number in decimal?



What is the number in decimal?

-9.5

