AP Computer Science Principles
Ticket Out The Door
Set 3: Storing Text in Binary

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Skill 3.01 Exercise 1

A computer uses the following binary encoding to store the following symbols,

Binary	Symbol
01	☮
10	❤
11	😃

What is ☮😃❤☮😃❤ in binary

What sequence would the following binary encoding display?

01101011

Skill 3.2 Exercise 1

The ASCII characters for the first 8 capital letters in our alphabet are shown below,

Binary	Character
1000001	A
1000010	B
1000011	C
1000100	D
1000101	E
1000110	F
1000111	G
1001000	H

What is "CAFE" in binary

What is the code for the letter Z?

Decode the following sequence, 01000011 01001111 01000100 01000101

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Skill 3.03 Exercise 1

Describe two limitations of the ASCII system

Skill 3.05 Exercise 1

How many characters are stored in the 7 bytes shown?

11110000 10011111 10011000 10000000 01110110 11000011 10110111