Example Questions: Data compression

Due No due date Points 39 Questions 11 Time Limit None
Allowed Attempts Unlimited

Instructions

Attention! If an answer consists of a sequence of items, the items must be separated with commas, with no blank. No sign is to be put at the ends of the sequence.

For example: 1,3,4,6

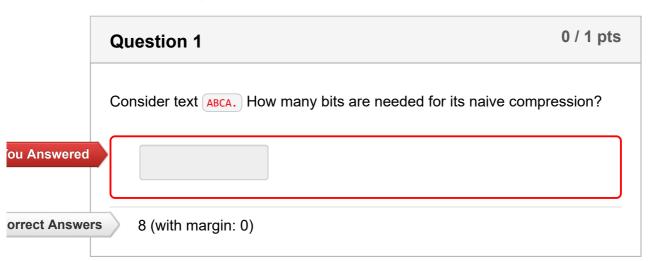
Another example: APPLE, ORANGE, BANANA

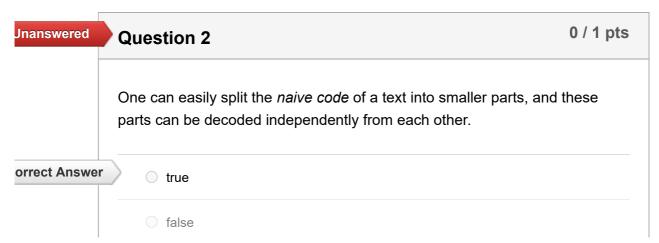
Take the Quiz Again

Attempt History

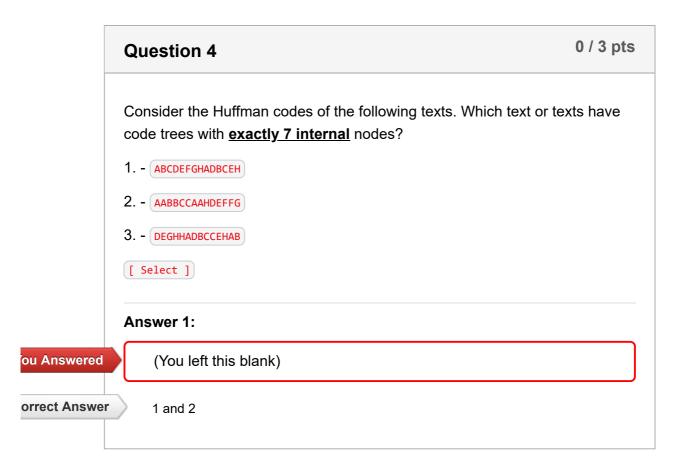
	Attempt	Time	Score
LATEST	Attempt 1	less than 1 minute	0 out of 39

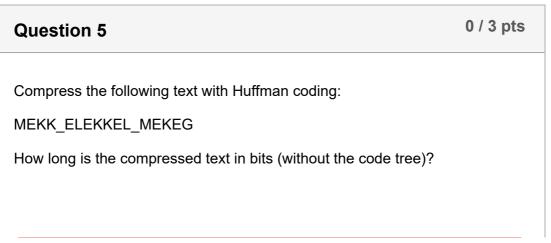
Submitted Dec 16 at 12:21pm

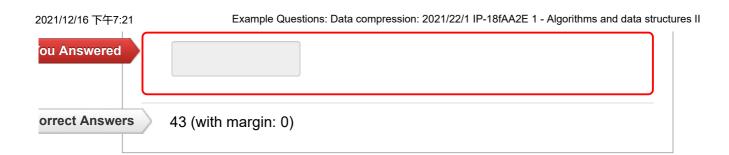


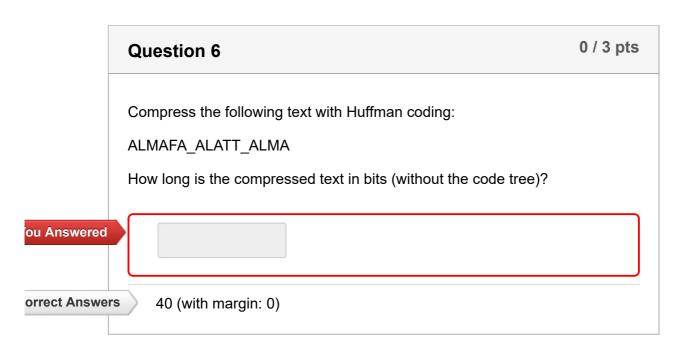


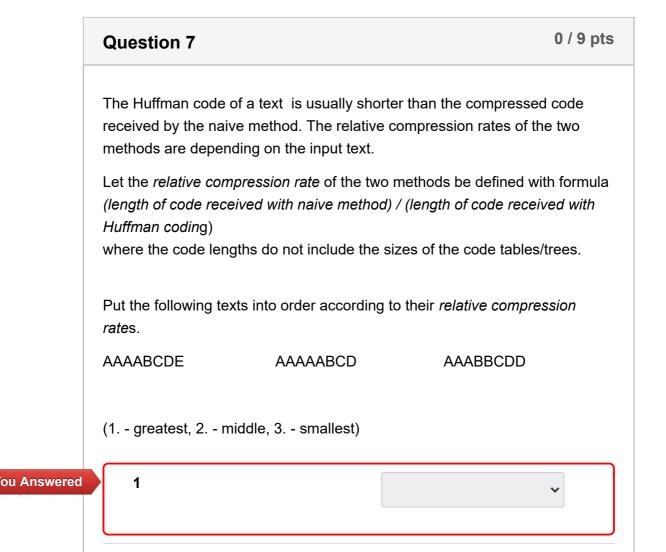
One can easily split the *Huffman code* of a text into smaller parts, and these parts can be decoded independently from each other. Orrect Answer orrect Answer true

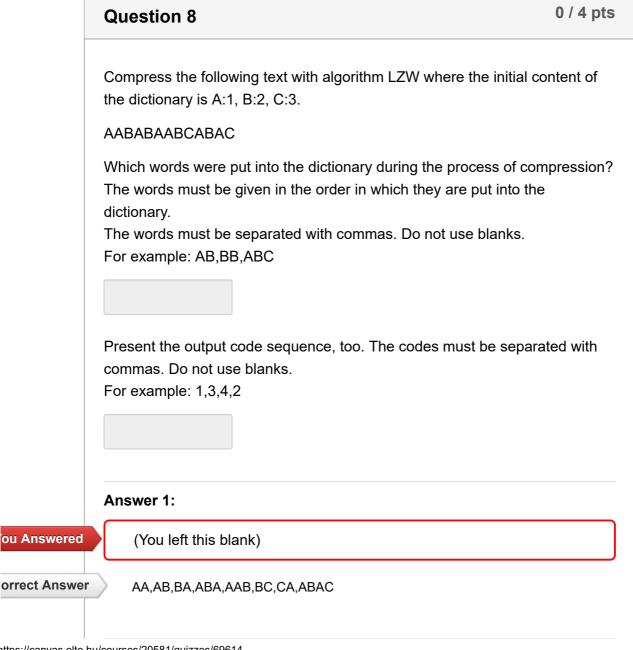












Answer 2:

ou Answered

(You left this blank)

orrect Answer

1,1,2,5,4,2,3,7,3

Question 9

0 / 4 pts

Compress the following text with algorithm LZW where the initial content of the dictionary is A:1, B:2, C:3.

BBCABCABABAAC

Which words were put into the dictionary during the process of compression? The words must be given in the order in which they are put into the dictionary.

The words must be separated with commas. Do not use blanks.

For example: AB,BB,ABC

Present the output code sequence, too. The codes must be separated with commas. Do not use blanks.

For example: 1,3,4,2

Answer 1:

ou Answered

(You left this blank)

orrect Answer

BB,BC,CA,AB,BCA,ABA,ABAA,AC

Answer 2:

ou Answered

(You left this blank)

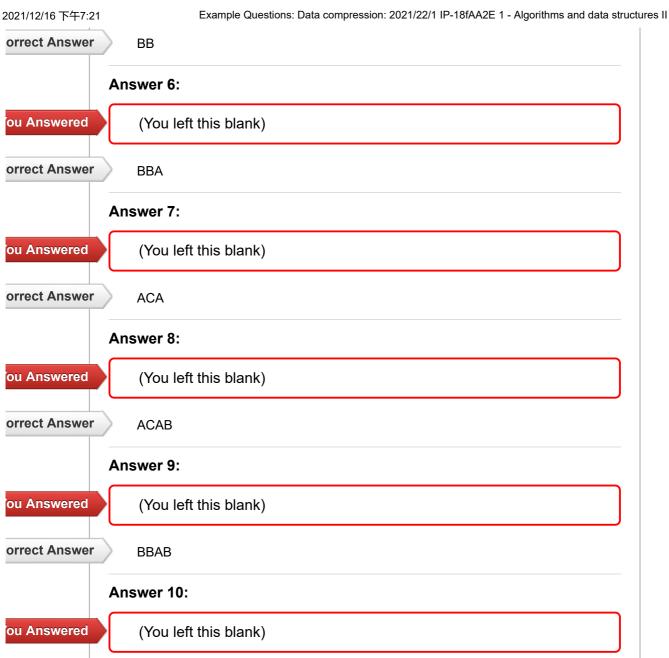
orrect Answer

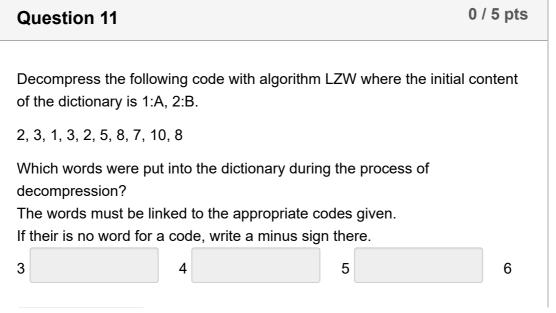
2,2,3,1,5,7,9,1,3

Question 10

0 / 5 pts

Decompress the following code with algorithm LZW where the initial content of the dictionary is 1:A, 2:B, 3:C. 3, 1, 1, 4, 2, 8, 6, 10, 9, 12 Which words were put into the dictionary during the process of decompression? The words must be linked to the appropriate codes given. If their is no word for a code, write a minus sign there. 7 5 6 12 13 (Use no other character in your answers.) Answer 1: ou Answered (You left this blank) orrect Answer CA Answer 2: ou Answered (You left this blank) orrect Answer AAAnswer 3: ou Answered (You left this blank) orrect Answer AC Answer 4: ou Answered (You left this blank) orrect Answer CAB Answer 5: ou Answered (You left this blank)





orrect Answer

