Search Algorithms – Linear Search Algorithm

Use the key learning slides to help answer these questions

1   Assume you have a set of numbers between 1 and 20

(a)   Describe how a linear search algorithm works to find any given number in the set.

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(b)   How many guesses would it take to guess the number 9?

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(c)   How many guesses would it take to guess the number 18?

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(d)   How many guesses would it take the guess the number 1?

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(e)   What feedback does the other player need to give you for the algorithm to work?

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(f)   Give one advantage of a linear search algorithm

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(g)   Why is a better way to search for a number: a binary search algorithm or a linear search algorithm?

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