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BSIT 1 - BLK 2

Discuss the following in 5-7 sentences:

1. Linear Search Algorithm
2. Interpolation Search Algorithm (Position Probing)

Linear Search

- According to the module that has given, linear search is a very simple search algorithm. In this type of search, a sequential search is made over all items one by one. Every item is checked and if a match is found then that particular item is returned, otherwise the search continues till the end of the data collection.

- A sequential search technique known as **"linear search"** starts at one end of a list and runs through each item in turn until the desired element is located; if not, the search continues until the end of the data set. The simplest search algorithm is this one.

Interpolation Search Algorithm (Position Probing)

- is an algorithm for searching for a key in an array that has been ordered by numerical values assigned to the keys (key values).
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- is an improved variation of binary search. This search technique uses the necessary value's probing position as its starting point. The data gathering needs to be evenly dispersed and in sorted order for this algorithm to function correctly.
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- The probe position is calculated in an interpolation search to locate a specific object. The center item of the collection is where the probe is initially placed.