ACPCE

JAWAHAR EDUCATION SOCIETY'S

ANNASAHEB CHUDAMAN PATIL COLLEGE OF ENGG.

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Aim: - Program to store the elements in I-D array and perform the operations like searching, sorting, reversing the elements.

Software used: - V5 Cole, GCC

Theory: - An array is a collection of items stored at contiguous memory location. This idea is to store multiple items of the same type together. This makes it easier to calculate the position of each element by simple adding an offset to base value, i.e., the memory location of the first

element of the array. The type of arrays depends upon the number of dimensions i.e 1-Darray, 2-Darray, 3-Darray etc.

Arrays make operations like searching scorting etc easier

Searching: - Searching algoriths are designed to find weather a data element

exist in a data structure or not. The speed of this algoriths depends upon the type of array and how it is sorted.

For unsorted array sequential search is used while interval sort is search is used in sorted arrays

Eg of seach algoriths are 1) Linear Search
2) Binary Search

3) Fibonacci Search etc.

Sorting: - Sorting algorithm is used to rearrange agiven array

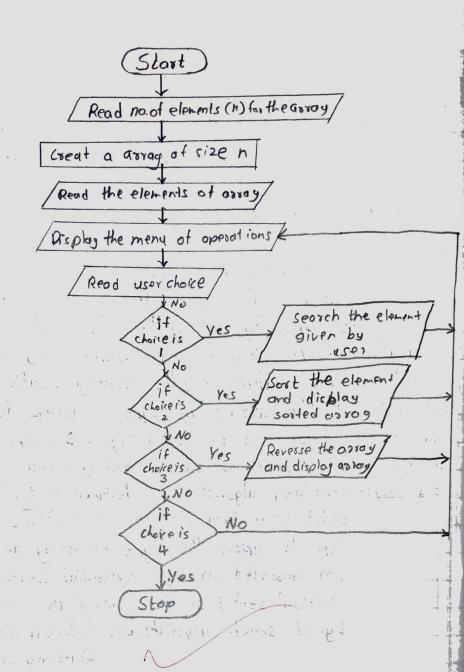
according to the comparison operator of elements. The speed

of sorting depends upon the type of array and type of algorithm

Eg. of sort algorithms one) Bubble sort 2) Selection sort

3) Merg sort etc.

Flowchart :-





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	Traversing: - Travers	ing is visiting each element of an array	one
	Reversing: - Changing	the order of array i.e. first element bec	omes
	last , se	cond becomes, second last and so on.	
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