Presentation
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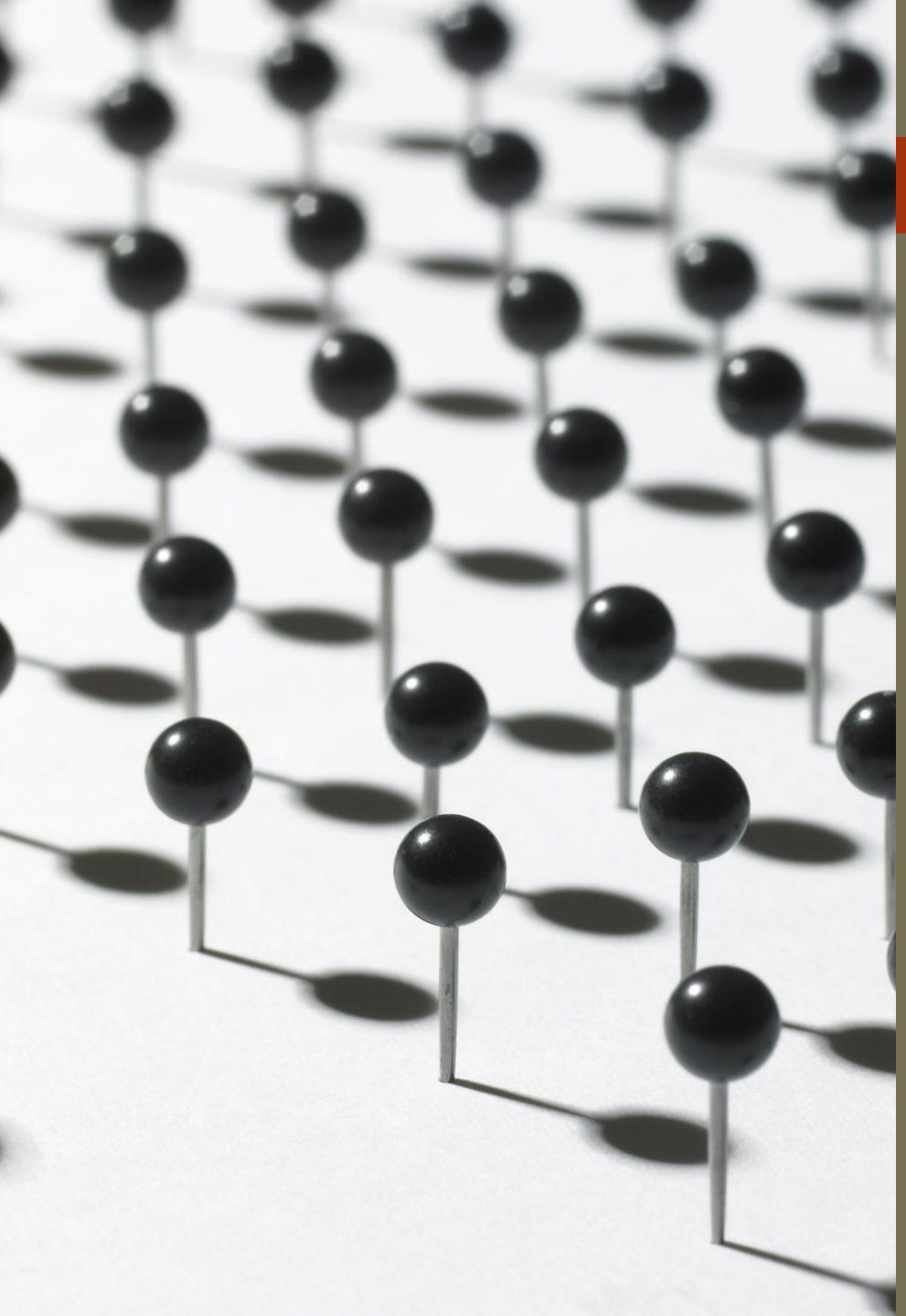
Agenda:

Bubble sorting

Linear Search

Binary Search



Bubble Sort

- It is a sorting algorithm that arranges elements of a list in a certain order (either ascending order or descending order).

Program for bubble sorting:

```
class  Bubblesort
{
    Static void Main(string[] args)
    {
        Int[] a=new int[]{2,5,4,1,9,7};
        Int temp=0;
        for(int I=0; I<a.Length-1;I++)
        {
            for(int j=0; j<a.Length-1-I;  j++)
            {
                If(a[j] > a[j+1])
                {
                    Int temp=a[j];
                    a[j]=a[j+1];
                    a[j+1]=temp;
                }
            }
```

Linear Search:

- Linear Search is used to search the target element . If the element is present in that array it returns the position of the target element otherwise it will return a value of –1.

Binary search:

- Binary search works on an array which is sorted.
- The value is compared with the middle element of the array.
- If equality is not found, then the half part is eliminated in which the value is not there.
- In the same way, the other half part is searched.