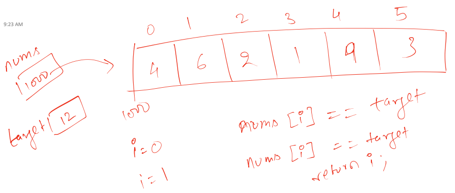
SESSION 06 C

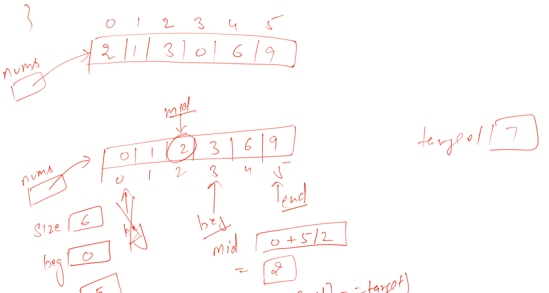
Friday, 10 October 2025 9:23 AM



```
int     binarySearch( int nums[], int target, int size)
{
        for( int i=0 ; i< size ; i++)
        {
                if (nums [i] == target)
                        return i;
        }
        return -1;
}
```

Leet 704

Sequential Search



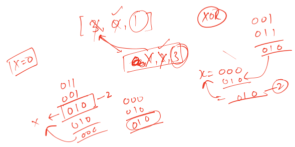
```
if (nums[mid] == target)
        return mid;
else if ( arr[mid] > target)
{
        end = mid-1;
}
else {          beg = mid+1;
}
```

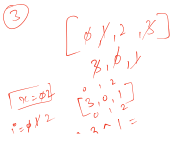
```
int     Search ( int *nums, int size, int target)
{
        int beg = 0;
        int end = size-1;
        int mid ;

        while ( beg < end)
        {
                mid = (beg + end) / 2;
                if( nums[mid] == target)
                        return mid;
                else if ( nums [mid] > target)
                {
                        end = mid-1;
                }
                else
                {
                        beg = mid+1;
                }
        }
        return -1;
}
```

```
int search(int* nums, int size, int target) {
    int beg = 0;
     int end = size - 1;
     int mid;
     while (beg <= end)
     {
         mid = (beg + end) / 2;
         if (nums[mid] == target)
             return mid;
         else if (nums[mid] > target)
             end = mid - 1;
         else
             beg = mid + 1;
     }
     return -1;
 }
```

```
int search(int nums[], int size, int target)
{
    for (int i = 0; i < size; i++)
    {
        if (nums[i] == target)
            return i;
    }
    return -1;
}
int missingNumber(int *nums, int n)
{
    for (int i = 1; i <= n; i++)
    {
        int j = search(nums, n, i);
        if (j == -1)
            return i;
    }
    return -1;
}
```





```
int x=0;
~~while~~
for(int i=0;i<n ; i++)
{
        x=x^num[i]^(i+1);
```

1 0^

3^1 =

011
001
$\boxed{010} \rightarrow 2$

$\cancel{2}$ ^ 0 ^ $\cancel{2}$

x $\boxed{0}$

}

return x;

0 ^ 1 ^ 3

001
011
0 ^ 010

$\cancel{4}$ ^ 5 ^ $\cancel{4}$ ^ $\cancel{3}$ ^ $\cancel{3}$ ^ $\cancel{2}$
^ $\cancel{2}$

0^5 => $\boxed{5}$