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Batch :T2

Roll No:22

Assignment No.:8

INPUT:

```
#include
<iostream>

using namespace std;

int main()
{
    int n;

    cout<<"Enter the size of array =>";
    cin>>n;

    int arr[n];
    cout<<"Enter "<<n<<" Integers in ascending order => \n";
    for(int i=0;i<n;i++)
        cin>>arr[i];

    int target;
    cout<<"Enter the number you want to search => ";
    cin>>target;

    int start = 0, end = n-1, mid;
    int pos= -1;

    while(start<=end)
    {
        mid = (start+end)/2;

        if(arr[mid]==target){
            pos = mid;
            break;
        }
    }
}
```

```

    }

    else if(arr[mid]<target)

        end = mid -1;

    else

        start = mid + 1;

    }

if(pos==-1)

    cout<<target<<" is not present in the array"<<endl;

else

    cout<<target<<" is present in the array at position

"<<pos<<endl;

return 0;

}

```

OUTPUT :

```

Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to lp2binarysearch.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
nikitagawande10032002@cloudshell:~ (lp2binarysearch) $ git clone https://github.com/nikitagawande/lp2binarysearch.git
fatal: destination path 'lp2binarysearch' already exists and is not an empty directory.
nikitagawande10032002@cloudshell:~ (lp2binarysearch) $ ls
lp2binarysearch  lp2program  README-cloudshell.txt
nikitagawande10032002@cloudshell:~ (lp2binarysearch) $ cd lp2binarysearch
nikitagawande10032002@cloudshell:~/lp2binarysearch (lp2binarysearch) $ g++ program.cpp
nikitagawande10032002@cloudshell:~/lp2binarysearch (lp2binarysearch) $ ./a.out
Enter the size of array =>4
Enter 4 Integers in ascending order =>
2
1
3
4
Enter the number you want to search => 1
1 is present in the array at position 1
nikitagawande10032002@cloudshell:~/lp2binarysearch (lp2binarysearch) $ 2
-bash: 2: command not found
nikitagawande10032002@cloudshell:~/lp2binarysearch (lp2binarysearch) $

```