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Write a program to implement binary search.
#include <stdio.h>
#include <comio.h>
main()
{
  int arr[10], num, i, n, pos = -1, beg, end.
  mid, found = 0;
  clrscr();
  printf("\n Enter the number of elements
  in the array: ");
  scanf ("%d", &n);
  printf("\n Enter the elements: ");
  for(i=0; i<n; i++)
    scanf("%d", &arr[i]);
 printf("\n Enter the number that has to
 be searched: ");
 scanf ("%d", &num);
 beg * 0, end = n-1;
 while(beg ≤end)
 {
    mid = (beg + end)/2;
```

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if (arr[mid] == num)
   printf("\n %d is present in the array
      at position = %d", num, mid);
    found = 1;
    break;
    if (arr[mid] >num)
       end = mid-1;
    else if (arr[mid] < num)
       beg = mid+1;
     printf("\n %d does not exist IN THE
       ARRAY", num);
   getch();
   return 0;
Output
 Enter the number of elements in the array: 5
  Enter the elements: 1 2 3 4 5
  Enter the number that has to be searched:
  7 does not exist in the array
```