```c
#include<stdio.h>
int binarysearch(int array[], int x, int low, int high)
{
while (low<= high)
{
int mid= low+(high-low)/ 2;
if (array[mid]==x)
return mid;
if (array[mid]< x)
low=mid+1;
else
high=mid-1;
}
return -1;
```

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```c
return -1;
}
int main (void)
{
int array[]={3,4,5,6,7,8,9};
int n= sizeof(array)/ sizeof(array[0]);
int x=4;
int result= binarysearch(array, x, 0, n-1);
if (result==-1)
printf("Not found");
else
printf("Element is found at the index %d", result);
return 0;
}
```