

8

#include<stdio.h>

int main()

{

int l=0,u=9,m=0,n=8,flag=0,i;

int a[]={1,2,3,4,5,6,7,8,9,10};

while(l<=u) 0 9 5 9

{

m=(l+u)/2; 0+9/2= 4 5+9/2=7

if(n>a[m]) 8>a[4] (5) 8>a[7](8)

l=m+1; 4+1=5

else if(n<a[m])

u=m-1;

else

{

flag=1;

break;

}

}

if(flag==1)

printf("present%d",m+1); 7+1=8

else

printf("not present");

}

3

include<stdio.h>

int main()

{

int l=0,u=9,m=0,n=8,flag=0,i;

int a[]={1,2,3,4,5,6,7,8,9,10};

while(l<=u) 0 9 0 3 2 3

{

m=(l+u)/2; 0+9/2= 4 0+3/2 =1 2+3/2=2

if(n>a[m]) 3>a[4] (5) 3>a[1] (2) 3>a[2] 3

l=m+1; 4+1=5 1+1=2

else if(n<a[m]) 3<a[4] (5)

u=m-1; 4-1=3

else

{

flag=1;

break;

}

}

if(flag==1)

printf("present%d",m+1);

else

printf("not present");

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

1	2	3	4	5	6	7	8	9	10
---	---	---	---	---	---	---	---	---	----



No=0 l u m l=0 u=-1 m=0

No= 11

No= 5

0	1	2	3	4	5	6	7	8	9
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1	2	3	4	5	6	7	8	9	10
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