APRIL 11 home questions

#1. Binary Sort

Code:

```
#include <stdio.h>
int main()
   int c_285,first_285,last_285, middle_285, n_285, key_285, array_285[100];
   printf("Enter the number of elements\n");
   scanf("%d",&n_285);
   printf("Enter %d integers\n",n_285);
    for(c_285=0;c_285<n_285;c_285++)
        scanf("%d",&array_285[c_285]);
   printf("Enter value to find\n");
   scanf("%d",&key_285);
    first_285=0;
    last 285=n 285-1;
   middle 285=(first 285+last 285)/2;
   while(first_285<=last_285)
        if(array_285[middle_285]<key_285)</pre>
           first_285= middle_285 +1;
       else if(array_285[middle_285]==key_285)
            printf("%d is found at location %d.\n",key_285,middle_285+1);
       last_285= middle_285 -1;
```

```
middle_285 = (first_285+last_285)/2;
}
if(first_285>last_285)
printf("NOT FOUND! %d IS NOT PRESENT IN THE LIST.\n",key_285);
return 0;
}
```

Output:

```
PROBLEMS OUTPUT TERMINAL

> V TERMINAL

PS C:\Users\KIIT\Desktop\Programming\11 april_bubble sort and binary search> gcc binary_search.c

PS C:\Users\KIIT\Desktop\Programming\11 april_bubble sort and binary search> ./a.exe

Enter the number of elements
10
Enter 10 integers
1 2 3 4 5 6 7 8 9 10
Enter value to find
9
9 is found at location 9.
```

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```
PS C:\Users\KIIT\Desktop\Programming\11 april_bubble sort and binary search> ./a.exe
Enter the number of elements
5
Enter 5 integers
67 78 89 100 490
Enter value to find
79
NOT FOUND! 79 IS NOT PRESENT IN THE LIST.
PS C:\Users\KIIT\Desktop\Programming\11 april_bubble sort and binary search>
```