Searching

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1.
#include <stdio.h>
int main(){
      int n = 8, key;
      int arr[n];
      for(int i = 0; i < n; i++)
            scanf("%d", &arr[i]);
      printf("Key = ");
      scanf("%d", &key);
      int flag = -1;
      for(int i = 0; i < n; i++)
            if(arr[i] == key)
                   flag = i;
      if(flag == -1)
      printf("Item not found\n");
      else
      printf("Lase occurance = %d\n", flag);
      return 0;
}
```

```
2.
#include <stdio.h>
int main(){
      int n = 8, key;
      int arr[n];
      for(int i = 0; i < n; i++)
             scanf("%d", &arr[i]);
      printf("Search = ");
      scanf("%d", &key);
      int flag = -1;
      for(int i = 0; i < n; i++)
             if(arr[i] == key)
                         flag = i;
      if(flag == -1)
             printf("Product not available\n");
      else
             printf("Position = %d Row\n", flag);
      return 0;
}
```

```
3.
#include <stdio.h>
int main(){
      int n = 6, key;
      int arr[n];
      for(int i = 0; i < n; i++)
             scanf("%d", &arr[i]);
      printf("Key = ");
      scanf("%d", &key);
      int flag = -1;
      int left = 0, right = n - 1;
      while(left <= right){</pre>
             int mid = (left + right) / 2;
             if(arr[mid] == key){
                   flag = mid;
                          break;
             }else if(arr[mid] > key)
                   right = mid - 1;
             else
             left = mid + 1;
      }
      if(flag == -1)
             printf("Not Found\n");
      else
             printf("Found at %d position\n", flag);
      return 0;
}
```