```python
## terenary search
def terenary_search(arr,l,r,key):
    mid1=l+(r-l)//3
    mid2=r-(r-l)//3
    while l<=r:
        if arr[mid1]==key:
            return mid1
        elif arr[mid2]==key:
            return mid2

        elif key<arr[mid1]:
            return terenary_search(arr,l,mid1-1,key)
        elif key>arr[mid2]:
            return terenary_search(arr,mid2+1,r,key)
        else:
            return terenary_search(arr,mid1+1,mid2-1,key)
    return -1


arr=list(map(int,input('enter the elements: ').split()))
l=0
r=len(arr)-1
key=int(input('enter the key value:'))
result=terenary_search(arr,l,r,key)
print(result)
```

```
enter the elements: 5 3 6 7 33
enter the key value:7
3
```

In [ ]: