

76.Sequential Search

Program:

```
def sequential_search(arr, target):  
    # Traverse through all elements in the array  
    for i in range(len(arr)):  
        # Check if the current element is the target  
        if arr[i] == target:  
            return i # Return the index of the target if found  
    return -1 # Return -1 if the target is not found
```

Example usage:

```
arr = [10, 23, 45, 70, 11, 15]
```

```
target = 70
```

```
result = sequential_search(arr, target)
```

```
if result != -1:
```

```
    print(f"Element found at index {result}")
```

```
else:
```

```
    print("Element not found")
```

Output:

```
"C:\Program Files\Python312\python.exe" "C:\Work Space\DAA\DAA COADS.PYTHON\program 76.pdf.py"  
Element found at index 3  
  
Process finished with exit code 0
```

Time complexity:

$O(n)$