78) Exhaustive Search

CODE:

```
def exhaustive_search_max(arr):
    if not arr:
        return None
    max_val = arr[0]
    for num in arr:
        if num > max_val:
            max_val = num
    return max_val

numbers = [5, 8, 3, 9, 2, 10]
max_num = exhaustive_search_max(numbers)
print("Maximum element:", max_num)
```

OUTPUT:

```
C:\WINDOWS\system32\cmd. × + \v

Maximum element: 10

Press any key to continue . . .
```

TIME COMPLEXITY: O(n)