1.def even_num_sum(data: list) -> int:

2. total = 0

3.

4.for e in data:

5. **if** e % 2 == 0:

6. total += e

7.

8. return total

| data | Value returned |
|-------------------|----------------|
| [10, 3, 5, 8, 20] | 38 |
| [-4, 7, 2, 9, 12] | 10 |

[10, 3, 5, 8, 20]

| Line | total | е | output | |
|------|-------|----|--------|--|
| 2 | 0 | | | |
| 4 | | 10 | | |
| 6 | 10 | | | |
| 4 | | 3 | | |
| 4 | | 5 | | |
| 4 | | 8 | | |
| 6 | 18 | | | |
| 4 | | 20 | | |
| 6 | 38 | | | |
| 8 | | | 38 | |

[-4, 7, 2, 9, 12]

| Line | total | е | output | | |
|------|-------|----|--------|--|--|
| 2 | 0 | | | | |
| 4 | | -4 | | | |

| 6 | -4 | | | | |
|---|----|----|----|--|--|
| 4 | | 7 | | | |
| 4 | | 2 | | | |
| 6 | -2 | | | | |
| 4 | | 9 | | | |
| 4 | | 12 | | | |
| 6 | 10 | | | | |
| 8 | | | 10 | | |

def search_target(data: list[int], target: int) -> bool: # As before, you need to suggest a
name.

index = 0 stopped = False

while index < len(data) and not stopped:

if data[index] == target:
 stopped = True
index += 1

return stopped

| data | target | Value returned |
|-----------------------|--------|----------------|
| [12, 45, 3, 18, 25] | 18 | True |
| [24, 8, -3, 42, 15] | 43 | False |

[12, 45, 3, 18, 25]

| Line | index | stopped | | |
|------|-------|---------|--|--|
| 1 | 0 | | | |
| 2 | | False | | |
| 7 | 1 | | | |

| 7 | 2 | | | |
|---|---|------|--|--|
| 7 | 3 | | | |
| 6 | | True | | |
| 9 | | True | | |

[24, 8, -3, 42, 15]

| Line | index | stopped | | |
|------|-------|---------|--|--|
| 1 | 0 | | | |
| 2 | | False | | |
| 7 | 1 | | | |
| 7 | 2 | | | |
| 7 | 3 | | | |
| 7 | 4 | | | |
| 7 | 5 | | | |
| 9 | | False | | |

| Line | cities | output | | |
|------|---|---------------------------------|--|--|
| 1 | "New York", "London", "Tokyo", "Sydney", "Berlin" | | | |
| 3 | | The last 5 cities to host major | | |

| | | international events: |
|---|----------|-----------------------|
| 4 | New York | |
| 5 | | New York |
| 4 | London | |
| 5 | | London |
| 4 | Tokyo | |
| 5 | | Tokyo |
| 4 | Sydney | |
| 5 | | Sydney |
| 4 | Berlin | |
| 5 | | Berlin |

```
number_list = [ 8, 14, 22, 5 ]
end = len(number_list)
temp: int
```

temp = number_list[0]

for i in range(1, len(number_list)): 1,4

 $\begin{array}{ll} number_list[i-1] = number_list[i] & number_list[0] = 14, \ number_list[1] = 22, \ [2] = 5 \\ number_list[end-1] = temp & number_list[3] = 8, \ number_list[3] = 8, \ [3] = 8 \end{array}$

| Line | number_list | end | temp | i | number _list[0] | number _list[1] | number _list[2] | number _list[3] |
|------|--------------|-----|------|---|--------------------|--------------------|--------------------|--------------------|
| 1 | 8, 14, 22, 5 | | | | | | | |

| 2 | 4 | | | | | | |
|---|---|---|---|----|----|---|---|
| 5 | | 8 | | | | | |
| 6 | | | 1 | | | | |
| 7 | | | | 14 | | | |
| 8 | | | | | | | 8 |
| 6 | | | 2 | | | | |
| 7 | | | | | 22 | | |
| 8 | | | | | | | 8 |
| 6 | | | 3 | | | | |
| 7 | | | | | | 5 | |
| 8 | | | | | | | 8 |