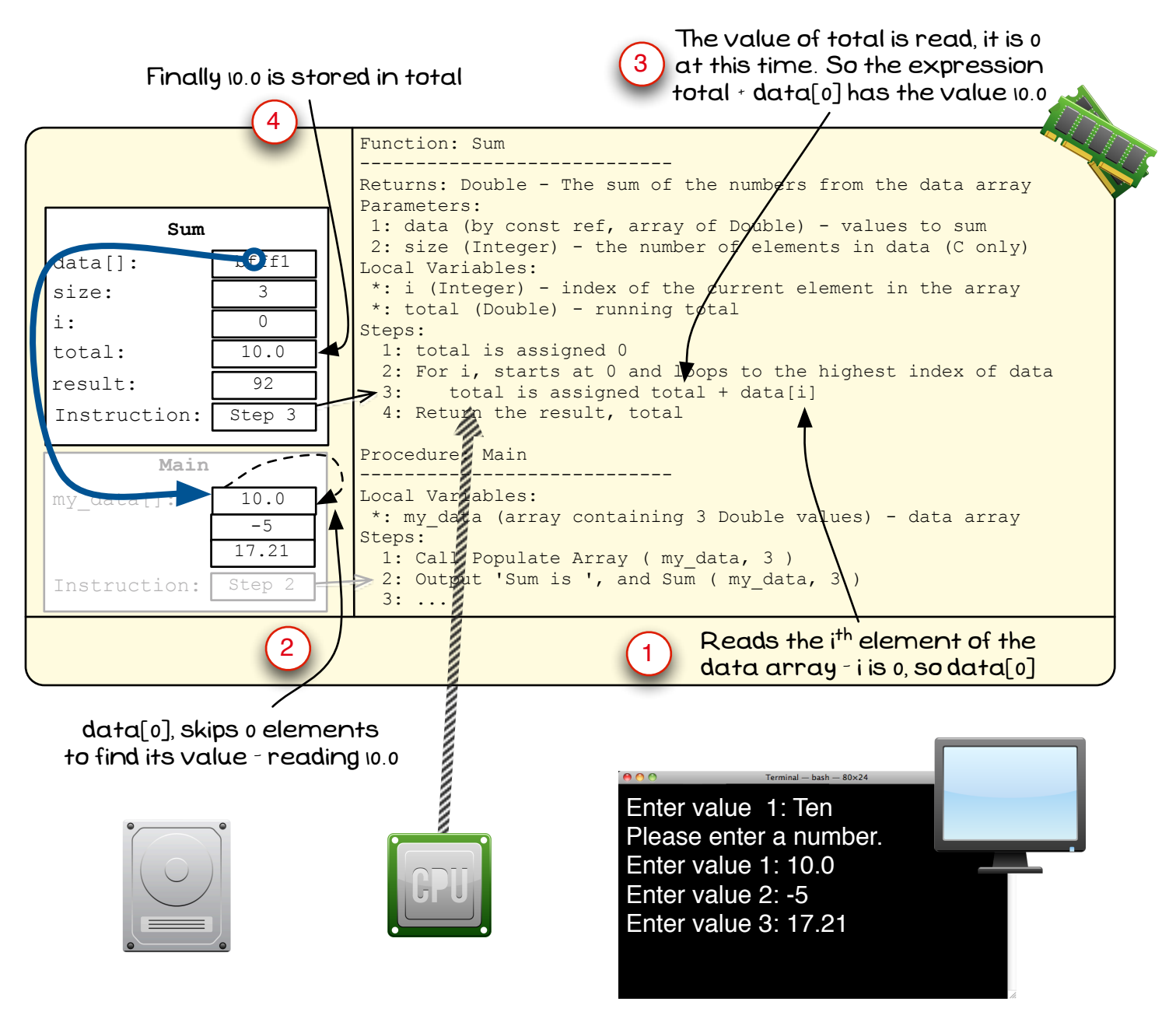
Finally 10.0 is stored in total
4
3
The value of total is read, it is 0 at this time. So the expression total + data[0] has the value 10.0
Sum
data[]:
size: 3
i: 0
total: 10.0
result: 92
Instruction: Step 3
Main
10.0
-5
17.21
Instruction: Step 2
Function: Sum
Returns: Double - The sum of the numbers from the data array
Parameters:
1: data (by const ref, array of Double) - values to sum
2: size (Integer) - the number of elements in data (C only)
Local Variables:
*: i (Integer) - index of the current element in the array
*: total (Double) - running total
Steps:
1: total is assigned 0
2: For i, starts at 0 and loops to the highest index of data
3: total is assigned total + data[i]
4: Return the result, total
Procedure: Main
Local Variables:
*: my_data (array containing 3 Double values) - data array
Steps:
1: Call Populate Array (my_data, 3)
2: Output 'Sum is ', and Sum (my_data, 3)
3: ...
2
1
Reads the ith element of the data array - i is 0, so data[0]
data[0], skips 0 elements to find its value - reading 10.0
CPU
Terminal — bash — 80×24
Enter value 1: Ten
Please enter a number.
Enter value 1: 10.0
Enter value 2: -5
Enter value 3: 17.21