

CSE 331

Assembly Report

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1. How the program works

After opening, assembling, and running hw1_1901042605.asm file in MARS. Steps are:

- 1- Enter the array size



The screenshot shows the MARS Run I/O window. The 'Run I/O' tab is selected. The input area contains the text 'size: ' followed by a cursor. A 'Clear' button is visible on the left side of the input area.

- 2- After entering the size, enter the dividing number



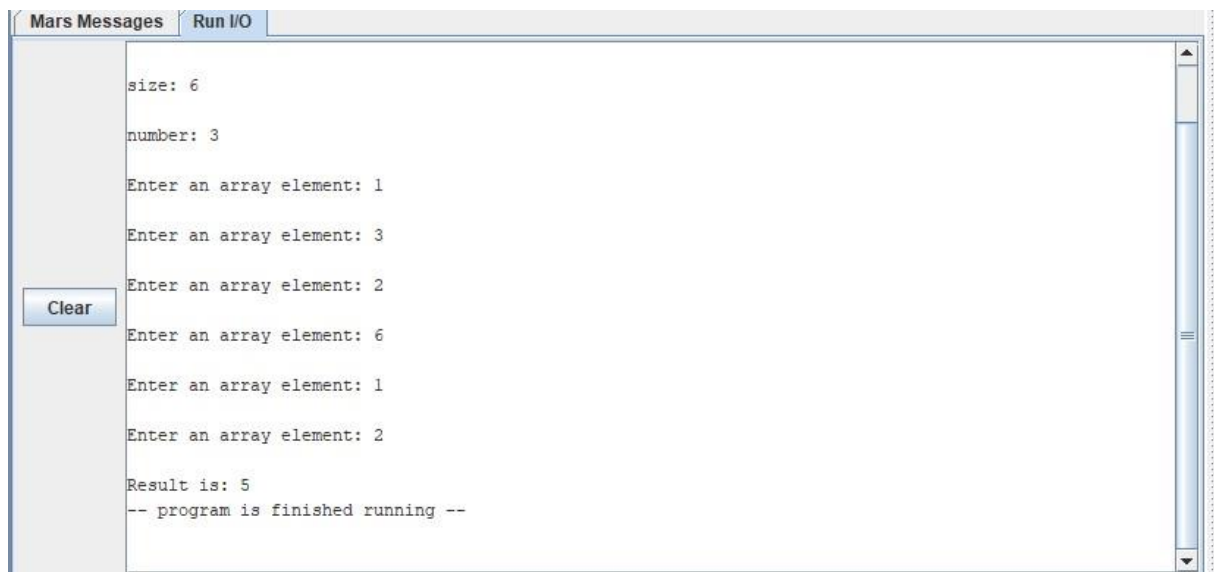
The screenshot shows the MARS Run I/O window. The 'Run I/O' tab is selected. The input area contains the text 'size: 6' and 'number: ' followed by a cursor. A 'Clear' button is visible on the left side of the input area.

- 3- After entering the number, enter array elements one by one



The screenshot shows the MARS Run I/O window. The 'Run I/O' tab is selected. The input area contains the text 'size: 6', 'number: 3', and 'Enter an array element: ' followed by a cursor. A 'Clear' button is visible on the left side of the input area.

- 4- After all elements entered one by one, result will be printed



The screenshot shows a window titled "Mars Messages" with a "Run I/O" button. The output text is as follows:

```
size: 6
number: 3
Enter an array element: 1
Enter an array element: 3
Enter an array element: 2
Enter an array element: 6
Enter an array element: 1
Enter an array element: 2
Result is: 5
-- program is finished running --
```

A "Clear" button is visible on the left side of the window.

2. Error Handling

- 1- Check size constraints (2 <= n <= 100)



The screenshot shows the "Mars Messages" window with the following output:

```
size: 105
Size must between 2 and 100!
size: -1
Size must between 2 and 100!
size: 6
number:
```

A "Clear" button is visible on the left side of the window.

- 2- Check number constraint (1 <= k <= 100)

Mars MessagesRun I/O

Clear

Size must between 2 and 100!
size: -1

Size must between 2 and 100!
size: 6

number: 250

number must between 1 and 100!
number: 0

number must between 1 and 100!
number: 5

Enter an array element:

3- Check array element constraint ($1 \leq ar[i] \leq 100$)

Mars MessagesRun I/O

Clear

Enter an array element: 101

array element must between 1 and 100!
Enter an array element: 1

Enter an array element: 0

array element must between 1 and 100!
Enter an array element: 2

Enter an array element: 3

Enter an array element: 4

Enter an array element: -3

array element must between 1 and 100!
Enter an array element: 5

Enter an array element: 110

array element must between 1 and 100!
Enter an array element: 6

Result is: 3
-- program is finished running --