

Assignment 4

Question 1:

This code will have no errors and will display the number 4.

Question 2:

This program will have a compiling error. The first error is that the variable "i" is not declared. The second error is that its not possible to assign whole arrays so the line a=b is not allowing the program to run.

Question 3:

This code will have no errors and will display the number 5.

Question 4:

The program will print:

1,1

2,-2

3,-3

Question 5:

In this program the reason the pointer being passed into the function displays the correct answer is because the given pointer leads to the first address of the given array so the program when it runs the line "a[i]=i" its pointing to the correct location in the memory and displays the correct answer. Also we can say $a[i]=*(a+i)$.

Step 1:

Create a function that takes an input array and returns all the even number, by returning a pointer. Create a main function that creates an arbitrary set of numbers defined by the user, but the numbers generated are at random.

Step 2:

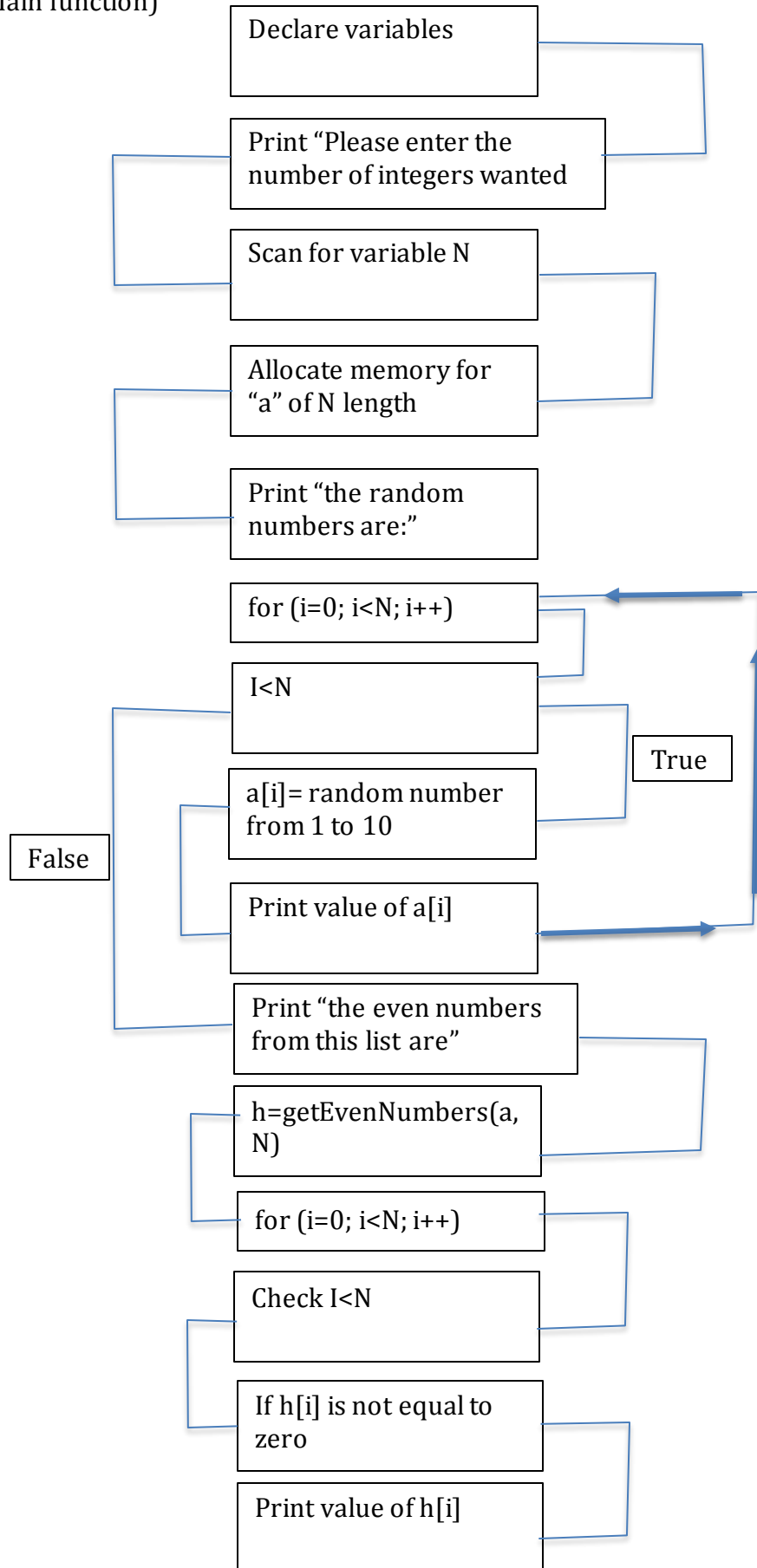
Input:

-Length of number set

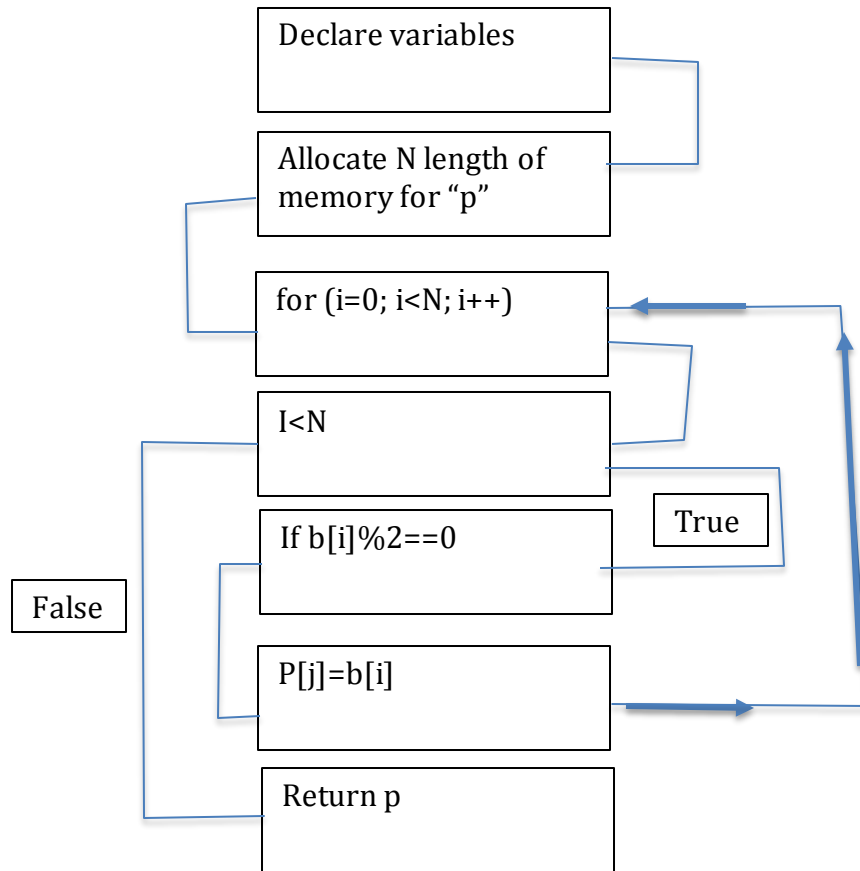
Output:

-even numbers

Step 3: (Main function)



(getEvenNumbers function (int *b, int N))



Step 4: In separate file

Step 5:

```
minayoussef — assignment_4(2) — 80x24
Last login: Fri Nov 28 14:47:19 on ttys000
Minas-MacBook-Pro:~ minayoussef$ /Users/minayoussef/Google\ Drive/First\ Year/first\ semester/Eng\ Computation/assignments/Assignment\ 4/assignment_4\ (2\); exit;
please enter the number of integers wanted
3
the random numbers are:
0
0
6
the even numbers from this list are:
6
logout

[Process completed]
```

```
minayoussef — assignment_4(2) — 80x24
Last login: Fri Nov 28 12:01:38 on ttys000
/Users/minayoussef/Google\ Drive/First\ Year/first\ semester/Eng\ Computation/assignments/Assignment\ 4/assignment_4\ (2\); exit;
Minas-MacBook-Pro:~ minayoussef$ /Users/minayoussef/Google\ Drive/First\ Year/first\ semester/Eng\ Computation/assignments/Assignment\ 4/assignment_4\ (2\); exit;
please enter the number of integers wanted
3
the random numbers are:
7
3
4
the even numbers from this list are:
4
logout

[Process completed]
```