

1. exerciseA() – array has hardcoded values.
   1. declare an *int* array ‘a’ and initialise it to 10, 20, 30, 40 and 50. Do this in one line of code.
   2. using the normal/traditional (not the enhanced version) ‘for’ loop, output the array contents
   3. using the enhanced-for loop, output the array contents
2. exerciseB() – array contains user specified values.
   1. declare an *int* array ‘b’ which can hold 5 elements.
   2. initialising the array:
      1. using a traditional ‘for’ loop (do not hardcode the loop termination condition value to 5):
         1. ask the user for a value
         2. store the value in the array
   3. using a traditional ‘for’ loop, output the array contents
   4. using an enhanced-for loop, output the array contents
3. histogram()
   1. declare an *int* array ‘a’ and initialise it to 19, 3, 15, 7, 11, 9, 13, 5, 17 and 2. Do this in one line of code.
   2. using nested *for* loops (one *for* loop inside another *for* loop) output a histogram (see sample output):  
        
      Example:

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* (19 stars)

\*\*\* (3 stars)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* (15 stars)

\*\*\*\*\*\*\* (7 stars)

\*\*\*\*\*\*\*\*\*\*\* (11 stars)

\*\*\*\*\*\*\*\*\* (9 stars)

\*\*\*\*\*\*\*\*\*\*\*\*\* (13 stars)

\*\*\*\*\* (5 stars)

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* (17 stars)

\*\* (2 stars)

1. dynamicHistogram()
   1. the arrays size is decided by user input:
      1. ask the user “How many elements in the array ? ”. For example: 3
      2. use the users input to decide the size of the array.
   2. initialise the array based on user input:
      1. loop for the size of the array (i.e. 0..lengthOfArray-1) e.g. 0..2
         1. ask the user for a value
         2. initialise the array with that user value
   3. using nested *for* loops (one *for* loop inside another *for* loop) output a histogram – this piece of code is the same as above.

Example:

How many elements in the array? 3

Enter a value: 2

Enter a value: 5

Enter a value: 3

Histogram:

\*\* (2 stars)

\*\*\*\*\* (5 stars)

\*\*\* (3 stars)