

Examples of problems involving arrays

Basic:

- 1) read or print an array.
- 2) Set each element in array equal to two.
- 3) Set the i th element in the array equal to $i*i - i$.
- 4) Add 20 to each element of the array.
- 5) Sum up the elements in the array.
- 6) Set one array equal to another.
- 7) Check if the entries of one array are the same as those of another
- 8) Add two arrays together entrywise to form another array.
- 9) Find the largest or smallest element in an array.

Less basic:

- 1) Form another array whose entries are how much each element of the original array differs from the average of the entries of the original array.
- 2) See which letter occurs most often in an array of characters.
- 3) Determine if, where, or how often a certain letter occurs in an array of characters.
- 4) Keep track of the number of times each letter in the alphabet occurs in an input phrase.
- 5) From integer data stored in an array draw the bar graph of the data.

Parallel arrays:

- 1) Store a person's first initial in one array, their second initial in the second array, and their age in a third. Print out all initials of people represented by the array who are under 21.
- 2) Store peoples month of birth and age in two parallel arrays. Update their age when it is their month of birth.

Come up with an idea related to your project ideas where arrays would be used. Write a small program using one or more of the above (but not just 1 or 2 of basic). Due Fri