Problem #1 (75%)
Write a complete program in the c language that consists of two parts:

Part 1)
Define two functions vadd and vsub to do integer vector additions and integer vector subtractions respectively. Each function should have four parameters:
   Source vector 1
   Source vector 2
   Destination vector and
   Vector size

vadd will perform the vector addition as:
   Source vector 1 + Source vector 2 → Destination vector

vsub will perform the vector subtraction as:
   Source vector 1 - Source vector 2 → Destination vector

Each vector has the same number of components as given in vector size.

Part 2)
Write a main program to test the two functions. This program first inputs components to three 5-dimensional integer vectors: vec1[5], vec2[5], and vec3[5], from the keyboard. Then, it uses functions vadd and vsub to compute:

   vec1 + vec2 - vec3 → vec4

The output should be in the following format:
vec1   vec2   vec3    vec4
.      .      .       .
.      .      .       .
.      .      .       .
.      .      .       .
.      .      .       .


Problem #2 (25%)
A structure of type stdinfo is to be used to describe information about a student and consists of three members:

- age -- integer
- name -- 20 characters
- gpa -- float

(a) Give the statement to declare the structure of type stdinfo.

(b) Give the statement to define two copies, gonzalez and taylor, of the structure declared in (a).

(c) Give the statement to set the gpa of gonzalez to 2.95.

(d) Give the statements to input an integer and store it into the age of taylor.