Name: Mario Palacios Section 03

Problems 1-10 refer to the following statements:

What is the value of the following expressions? For each problem, restart with the values as above.

Work Space Your Answer 1. *ptr 2. *ptr + 33. *(ptr+3) 4. *ptr + *(ptr + 5)5. *(ptr + 2) - 16. _ -13 6. _ -13 6. x[3] - *ptr7. 22 7. 22 7. *ptr + x[5] + *(ptr + 1) + x[2]5 + 7 + 6 + 4 8. <u>5</u> 8. <u>5</u> 8. *x 9. _ \ 0 _ 9. _ _ (0 9. *x + *ptr10. 2 10. 2 10. x[2] - *ptr + 3

→ more on next page

1-5+3

Problems 11-16 refer to the following declarations and function:

```
int partial sum (int x[], int npts); /* function prototype */
 /* Array & variables as initialized in main, abridged */
  int main (void)
            0 1 2 3 4 5 6 7 array positions */
  int a[] = {-6, 3, 4, 1, 8, 20, 16, 7};
  int *ptr = &a[2];
/*____*/
  /* This function will add up a fragment of the array */
  int partial sum (int x[], int npts) {
   int k, sum = 0;
   /* Compute partial sum. */
   for (k = 0; k < npts; k++)
      sum += x[k]; => Sum = Sum + X[k]
   return sum;
  /*----*/ /* workspace below */
                                                                                Computer
                                                               You
11. What is the value of the reference
    partial_sum(ptr, 2)
                                                              12. 29
12. What is the value of the reference
    partial sum(ptr+1, 3)
13. What is the value of the reference
    partial sum(a, 8)
14. What is the value of the reference
    partial_sum(a, 4)
15. What is the value of the reference
    partial_sum(ptr, a[1])
16. What is the value of the reference
    partial_sum(&a[3], 2)
```

The file you need for lab6 to fill in the "computer" part is: lab6.c

First move to your class folder by typing: cd csc60

Type: cp /gaia/home/faculty/bielr/files_csc60/lab6.c . (Don't miss the "space dot" after the c) Next the permissions on the file needs to be changed by typing: chmod 644 lab6.c

Compile, run it, fill in the rest of the worksheet.

No points off for wrong guesses. The point is to learn from both the correct answers and the wrong ones. Turn in this worksheet for credit. 16 points.