

Problem 3 (20 points)

In this problem, you are given several exercises, each containing a short C program. You should assume that the program compiles and runs successfully. Your task is to determine, in each case, the output of the program. Write your answers in the space provided. *Explanations are not required.*

a.

```
#include <stdio.h>

int main()
{
    int a[] = {0,1,2,3,4,5,6};
    int i, *p;

    p = a;
    printf("--> ");
    for (i = 0; p+i < a+6; i++)
    {
        printf("%d ", *(p+i));
        p++;
    }
    return 0;
}
```

The program output is:

-->

b.

```
#include <stdio.h>

int main()
{
    int a[] = {3,5,11,2,7};
    int *p = a;

    printf("--> ");
    p += *p; printf("%d ", *p);
    p -= *p; printf("%d ", *p);
    return 0;
}
```

The program output is:

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