1. Write down the output of the following program?

```c
#include<stdio.h>
int main()
{   int i,*p,a[7]={7,4,2,-1};
    p=a+3;
    p[2]=5;
   *(p-3)=8;
    for(i=0;i<7;i++)
        printf("%d ",*(a+i));
    printf("\n");
    p=p-1;
    for(i=0;i<3;i++)
        p[i]=9-i;
    for(i=0;i<7;i++)
        printf("%d ",a[i]);
    printf("\n");
    return 0;}
```

Answer:

8 4 2 -1 0 5 0

8 4 9 8 7 5 0

2. Write down the output of the following C program.

```c
#include <stdio.h>
int main( )
{int a[3][4],i,j;
for(i=0;i<3;i++)
     {
     for(j=0;j<4;j++)
          a[i][j]=2*i+3*j+4;
     }
printf("%d  %d  %d \n",*a[2]+2,*(a[2]+2),*(a[1]+7));
printf("%d  %d  %d \n",*(*a+3),**(a+2),*(&a[1][3]+4));
return 0;}
```

Answer:

10 14 17

13 8 17

3. An incomplete C program is given below. The output of the program is a=20,b=30. Write down the prototype of the function *mystery* and complete the details of the function *mystery*.

```
#include<stdio.h>



int main()
{
int a=1,b=2;
b=mystery(&a);
printf("a=%d,b=%d\n",a,b);
return 0;
}
```