









CODE 1:

```
#include <stdio.h>
 1
 2
     #include <stdlib.h>
 3
     /** 1 - POINTER SUBTRACTION p-q IS POSSIBLE **/
 4
     // Pointer addition and subtraction is useful for arrays
 5
     //POINTER ADDITION P+Q IS NOT POSSIBLE
     //POINTER WITH INTEGER ADDITION OR SUBTRACTION p+1, p-1 IS POSSIBLE
 6
 7
     int main()
 8
 9
     int a[]={0,1,-1,10,11};
10
     int *p=&a[0],*q=&a[4];
11
     int d;
12
     d=p-q;
13
     printf("Value of d:%d\n",d);
14
     *q=25;
15
     d=q-p;
16
     printf("Value of d:%d\n",d);
17
     *p=27;
18
     q=q-3;
19
     printf("Value at address in q:%d\n",*q);
20
21
    printf("Value of d:%d\n",d);
22
     p=p+3;
23 | printf("Value at address in p:%d\n",*p);
24 | d=p-q;
    printf("Value of d:%d\n",d);
25
26 | getch();
27 |
28
29
30
```

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```
Value of d:-4
Value of d:4
Value at address in q:1
Value of d:-1
Value at address in p:10
Value of d:2
```