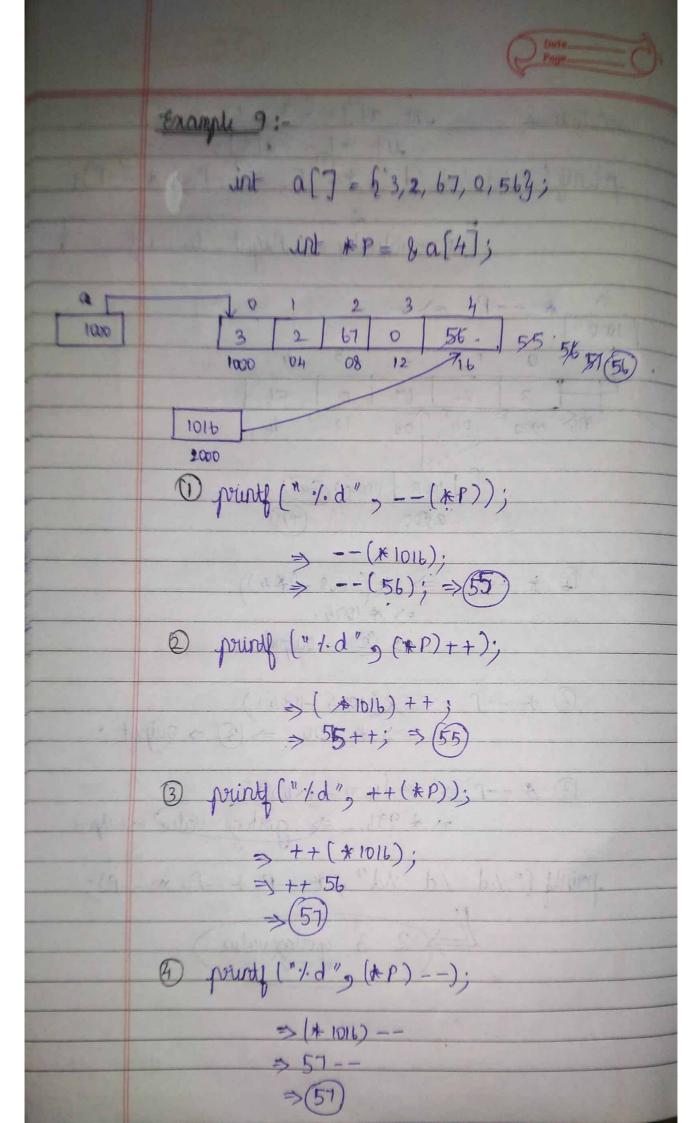


Example 8:

A

prints (" 1.d 1.d 1.d", \* -- P, \* -- P); 2 3 garbage value.



### CODE 1:

```
#include <stdio.h>
     #include <stdlib.h>
 3   /** 1 - POINTER INCREMENT DECREMENT **/
     int main()
 5
 6
         int a[]={3,2,67,0,56};
 7
         int *p=a; //int *p=&a; *p=&a[0]
 8
         p++; //p=p+1;
9
10
         printf("Value of address at p:%d\n",*p);
11
12
        getch();
13
14
```

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Value of address at p:2

### CODE 2:

```
1 #include <stdio.h>
     #include <stdlib.h>
   /** 2 - POINTER INCREMENT DECREMENT **/
3
    int main()
 5
   ₽{
 6
         int a[]={3,2,67,0,56};
7
         int *p=a; //int *p=&a; *p=&a[0]
8
9
         p+1; //p+1;
10
         printf("Value of address at p:%d\n", *p);
11
12
         getch();
13
14
```

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```
Value of address at p:3
```

### CODE 3:

```
1 #include <stdio.h>
 2 #include <stdlib.h>
 3   /** 3 - POINTER INCREMENT DECREMENT **/
 4
 5
    int main()
   ₽{
 6
 7
         int a[]={3,2,67,0,56};
         int *p=a; //int *p=&a; *p=&a[0]
 8
9
10
         printf("Value of address at p:%d\n",*p++); //POST INCREMENT
11
         printf("Value of address at p:%d\n",*p);
12
13
         getch();
14
15
```

```
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Value of address at p:3
Value of address at p:2
```

### CODE 4:

```
1 #include <stdio.h>
2
     #include <stdlib.h>
3  /** 4 - POINTER INCREMENT DECREMENT **/
4
5
    int main()
6
   □ {
7
         int a[]={3,2,67,0,56};
         int *p=a; //int *p=&a; *p=&a[0]
8
9
10
         printf("Value of address at p:%d\n",*++p); //PRE INCREMENT
11
         printf("Value of address at p:%d\n", *p);
12
13
         getch();
14
15
```

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```
Value of address at p:2
Value of address at p:2
```

## CODE 5:

```
#include <stdio.h>
2
     #include <stdlib.h>
3     /** 5 - POINTER INCREMENT DECREMENT **/
4
5
    int main()
6
   □ {
7
         int a[]={3,2,67,0,56};
8
         int *p=&a[2]; //int *p=&a; int *p=&a[0] int *p=a;
9
         printf("Value of address at p:%d\n",*p--); //POST DECREMENT
10
11
         printf("Value of address at p:%d\n", *p);
12
13
         getch();
14
15
```

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```
Value of address at p:67
Value of address at p:2
-
```

### CODE 6:

```
1 #include <stdio.h>
2
     #include <stdlib.h>
3
    /** 6 - POINTER INCREMENT DECREMENT **/
 4
5
    int main()
 6
   ₽ {
7
         int a[]={3,2,67,0,56};
8
         int *p=&a[2]; //int *p=&a; int *p=&a[0] int *p=a;
9
10
         printf("Value of address at p:%d\n", *--p); //PRE DECREMENT
         printf("Value of address at p:%d\n", *p);
11
12
13
         getch();
14
15
```

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Value of address at p:2
Value of address at p:2
■

#### CODE 7:

```
#include <stdio.h>
 1
 2
     #include <stdlib.h>
 3
     /** 7 - POINTER INCREMENT DECREMENT **/
 4
 5
     int main()
 6
    □ {
 7
         int a[]={3,2,67,0,56};
 8
         int *p=&a[2]; //int *p=&a; int *p=&a[0] int *p=a;
 9
10
         printf("%d %d %d", *--p, *--p);
11
         //Associativity rule: Right to left
12
13
         getch();
14
15
```

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```
0 3 2_
```

### CODE 8:

```
#include <stdio.h>
 2
     #include <stdlib.h>
 3
   /** 9 - POINTER INCREMENT DECREMENT **/
 4
 5
    int main()
 6
   ₽{
 7
         int a[]={3,2,67,0,56};
 8
         int *p=&a[4]; //int *p=&a; int *p=&a[0] int *p=a;
 9
10
         printf("Value at address p:%d\n",--(*p)); //output: 55
                                                                  a[4]=55
11
         printf("Value at address p:%d\n",(*p)++); //output: 55
                                                                  a[4]=56
12
         printf("Value at address p:%d\n",++(*p)); //output: 57
                                                                  a[4]=57
13
         printf("Value at address p:%d\n", (*p)--); //output: 57
                                                                  a[4]=56
14
15
         getch();
16
17
18
```

# ■ "D:\1. C NOTEBOOK\C LANGUAGE\C PROGRAN

Value at address p:55 Value at address p:55 Value at address p:57 Value at address p:57