

```
1  #include <stdio.h>
2
3  int main() {
4      int arr[] = {1,2,3,4,5,6,7,8,9};
5      int *ptr1, *ptr2;
6      ptr1=arr;
7      ptr2=&arr[8];
8      while (ptr1<=ptr2){
9          printf("%d",*ptr1);
10         ptr1++;
11     }
12     printf("\n");
13     return 0;
14 }
15
```



A function c

123456789

Program ended with exit code: 0



Lab3\_1



Lab3\_1 ›



My Mac



C main



Lab3\_1 ›



Lab3\_1 ›

C main ›



main()

```
1  #include <stdio.h>
2
3  int main() {
4      int arr1[] = {1,2,3,4,5};
5      int arr2[] = {0,2,4,6,8};
6      int arr3[] = {1,3,5,7,9};
7      int *ptrArr[3] = {arr1, arr2, arr3};
8      for (int i=0; i<3; i++){
9          printf("%d", *ptrArr[i]);
10         printf("\n");
11     }
12     return 0;
```



A fun

```
1
0
1
```

Program ended with exit code: 0



Lab3\_2



Lab3\_2 ›



My Mac



C main



Lab3\_2 ›



Lab3\_2 ›

C main ›



main()

```
1  #include <stdio.h>
2
3  int main() {
4      int arr[2][2]={1,2},{3,4}};
5      int (*parr)[2];
6      parr=arr;
7      for (int i=0; i<2; i++){
8          for (int j=0; j<2; j++){
9              printf("%d", (*(parr+i))[j]);
10         }
11     }
12     printf("\n");
13     return 0;
```



A fun

1234

Program ended with exit code: 0



```
1 #include <stdio.h>
2 void display (int(*)[3]);
3 int main() {
4     int mat[3][3];
5     printf("\nEnter the elements of the 3x3 matrix:\n");
6     for (int i=0; i<3; i++)
7     {
8         for (int j=0; j<3; j++)
9             scanf("%d", &mat[i][j]);
10    }
11    display(mat);
12    return 0;
13 }
14
15 void display(int (*mat)[3])
16 {
17     printf("\n The elements of the matrix are:");
18     for (int i=0; i<3; i++)
19     {
20         printf("\n");
21         for (int j=0; j<3; j++)
22             printf("\t %d", *((mat+i)+j));
23     }
24     printf("\n");
25 }
26
```



A function declaration v

Enter the elements of the 3x3 matrix:

1  
2  
3  
4  
5  
6  
7  
8  
9

The elements of the matrix are:

|   |   |   |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |
| 7 | 8 | 9 |

Program ended with exit code: 0

```
3  int main() {
4      int i,j,k;
5      int arr[2][2][2];
6      int(*parr)[2][2]=arr;
7      printf("Enter the elements of a 2x2x2 array:\n");
8      for (i=0;i<2;i++)
9      {
10         for (j=0;j<2;j++)
11         {
12             for (k=0;k<2;k++)
13                 scanf("%d",&arr[i][j][k]);
14         }
15     }
16     printf("The elements of the 2x2x2 array are: ");
17     for (i=0;i<2;i++)
18     {
19         for (j=0;j<2;j++)
20         {
21             for (k=0;k<2;k++)
22                 printf("%d",*(*(parr+i)+j)+k));
23         }
24     }
25     printf("\n");
26     return 0;
```

A function declar

Enter the elements of a 2x2x2 array:

1  
2  
3  
4  
5  
6  
7  
8

The elements of the 2x2x2 array are: 12345678

```
1  #include <stdio.h>
2
3  int add(int *a, int *b) {
4      return (*a) + (*b);
5  }
6
7  int main() {
8      int num1, num2, sum;
9      printf("Enter the first number: ");
10     scanf("%d", &num1);
11     printf("Enter the second number: ");
12     scanf("%d", &num2);
13
14     sum = add(&num1, &num2);
15     printf("Total = %d\n", sum);
16
17     return 0;
18 }
```



A function declar

```
Enter the first number: 2
Enter the second number: 3
Total = 5
Program ended with exit code: 0
```

```
1  #include <stdio.h>
2
3  int isPrime(int num) {
4      if (num <= 1) {
5          return 0;
6      }
7      for (int i = 2; i * i <= num; i++) {
8          if (num % i == 0) {
9              return 0;
10         }
11     }
12     return 1;
13 }
14
15 int main() {
16     int num;
17     printf("Enter any number: ");
18     scanf("%d", &num);
19     if (isPrime(num)) {
20         printf("%d is a prime number\n", num);
21     } else {
22         printf("%d is a composite number\n", num);
23     }
24     return 0;
25 }
26
```



A function declara

```
Enter any number: 2
2 is a prime number
Program ended with exit code: 0
```



```
1  #include <stdio.h>
2
3  int isPrime(int num) {
4      if (num <= 1) {
5          return 0;
6      }
7      for (int i = 2; i * i <= num; i++) {
8          if (num % i == 0) {
9              return 0;
10         }
11     }
12     return 1;
13 }
14
15 int main() {
16     int num;
17     printf("Enter any number: ");
18     scanf("%d", &num);
19     if (isPrime(num)) {
20         printf("%d is a prime number\n", num);
21     } else {
22         printf("%d is a composite number\n", num);
23     }
24     return 0;
25 }
26
```



A function declara

```
Enter any number: 6
6 is a composite number
Program ended with exit code: 0
```

```
1  #include <stdio.h>
2
3  int isPrime(int num) {
4      if (num <= 1) {
5          return 0;
6      }
7      for (int i = 2; i * i <= num; i++) {
8          if (num % i == 0) {
9              return 0;
10         }
11     }
12     return 1;
13 }
14
15 int main() {
16     int num;
17     printf("Enter any number: ");
18     scanf("%d", &num);
19     if (isPrime(num)) {
20         printf("%d is a prime number\n", num);
21     } else {
22         printf("%d is a composite number\n", num);
23     }
24     return 0;
25 }
26
```



A function declara

```
Enter any number: 7
7 is a prime number
Program ended with exit code: 0
```

```
1  #include <stdio.h>
2
3  int main() {
4      int num;
5      printf("Enter a number: ");
6      scanf("%d", &num);
7      if (num % 2 == 0) {
8          printf("The number is an even number.\n");
9      } else {
10         printf("The number is an odd number.\n");
11     }
12     return 0;
13 }
14
```



A function declara

```
Enter a number: 34
The number is an even number.
Program ended with exit code: 0
```