

2-24

```
#include <stdio.h>
```

```
int main()
```

```
{
```

```
    int integer; /* integer input by user */
```

```
    printf( "Input an integer: " ); /* prompt */
```

```
    scanf( "%d", &integer ); /* read integer */
```

```
    /* test if integer is even */
```

```
    if ( integer % 2 == 0 ) {
```

```
        printf( "%d is an even integer\n", integer );
```

```
    } /* end if */
```

```
    /* test if integer is odd */
```


```
    if ( integer % 2 != 0 ) {
```

```
        printf( "%d is an odd integer\n", integer );
```


```
    } /* end if */
```

```
    return 0; /* indicate successful termination */
```

```
} /* end main */
```



```
Input an integer: 15
15 is an odd integer
Press any key to continue
```



```
Input an integer: 8
8 is an even integer
Press any key to continue
```