

49. C program to read the user's year of birth and check whether it is a leap year or not:

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

```
int main() {
```

```
    int year;
```

```
    // Read the year of birth from the user
```

```
    printf("Enter your year of birth: ");
```

```
    scanf("%d", &year);
```

```
    // Check if the year is a leap year
```

```
    if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {
```

```
        printf("You were born in a leap year.\n");
```

```
    } else {
```

```
        printf("You were not born in a leap year.\n");
```

```
    }
```

```
    return 0;
```

```
}
```