

47. C program that reads the ratings of three movies and displays which one is the hit movie using logical operators:

```
#include <stdio.h>

int main() {

    float rating1, rating2, rating3;

    // Read the ratings of three movies
    printf("Enter the rating for Movie 1 (1 to 10): ");
    scanf("%f", &rating1);
    printf("Enter the rating for Movie 2 (1 to 10): ");
    scanf("%f", &rating2);
    printf("Enter the rating for Movie 3 (1 to 10): ");
    scanf("%f", &rating3);

    // Validate the ratings
    if ((rating1 < 1 || rating1 > 10) || (rating2 < 1 || rating2 > 10) || (rating3 < 1 || rating3 > 10)) {
        printf("Error: Ratings should be between 1 and 10.\n");
        return 1; // Exit the program with an error code
    }

    // Determine and display which movie is the hit movie
    if (rating1 > rating2 && rating1 > rating3) {
        printf("Movie 1 is the hit movie with a rating of %.1f\n", rating1);
    } else if (rating2 > rating1 && rating2 > rating3) {
        printf("Movie 2 is the hit movie with a rating of %.1f\n", rating2);
    } else if (rating3 > rating1 && rating3 > rating2) {
        printf("Movie 3 is the hit movie with a rating of %.1f\n", rating3);
    }
}
```

```
} else {  
    printf("There is no single hit movie. There might be a tie.\n");  
}  
  
return 0;  
}
```

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