

2:00 p.m.	4:08 p.m.
3:45 p.m.	5:55 p.m.
7:00 p.m.	9:20 p.m.
9:45 p.m.	11:58 p.m.

Write a program that asks user to enter a time (expressed in hours and minutes, using the 24-hour clock). The program then displays the departure and arrival times for the flight whose departure time is closest to that entered by the user:

Enter a 24-hour time: 13:15

Closest departure time is 12:47 p.m., arriving at 3:00 p.m.

Hint: Convert the input into a time expressed in minutes since midnight, and compare it to the departure times, also expressed in minutes since midnight. For example, 13:15 is $13 \times 60 + 15 = 795$ minutes since midnight, which is closer to 12:47 p.m. (767 minutes since midnight) than to any of the other departure times.

9. Write a program that prompts the user to enter two dates and then indicates which date comes earlier on the calendar:

Enter first date (mm/dd/yy): 3/6/08

Enter second date (mm/dd/yy): 5/17/07

5/17/07 is earlier than 3/6/08

- W 10. Using the switch statement, write a program that converts a numerical grade into a letter grade:

Enter numerical grade: 84

Letter grade: B

Use the following grading scale: A = 90–100, B = 80–89, C = 70–79, D = 60–69, F = 0–59. Print an error message if the grade is larger than 100 or less than 0. *Hint:* Break the grade into two digits, then use a switch statement to test the ten's digit.

11. Write a program that asks the user for a two-digit number, then prints the English word for the number:

Enter a two-digit number: 45

You entered the number forty-five.

Hint: Break the number into two digits. Use one switch statement to print the word for the first digit ("twenty," "thirty," and so forth). Use a second switch statement to print the word for the second digit. Don't forget that the numbers between 11 and 19 require special treatment.