

HW3 – Selection Statements

Due on Oct. 4th, 6:00pm

1. Write a program that asks the user to enter today's date and his/her birthday and computes his/her age today:

Enter today's date (mm/dd/yy): 30/09/23

Enter a date of birth (mm/dd/yy): 11/21/03

Age is 19

2. The following table shows the daily flights from one city to another:

<i>Departure time</i>	<i>Arrival time</i>
8:00 am	10:16 am
9:34 am	11:52 am
11:19 am	1:31 pm
12:47 pm	3:00 pm
2:00 pm	4:08 pm
3:45 pm	5:55 pm
7:00 pm	9:20 pm
9:45 pm	11:58 pm

Write a program that asks the 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 pm, arriving at 3:00 pm

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 closest to 12:47 pm (767 minutes since midnight) than to any of the other departure times

3. Write a program that finds the largest and second largest of four distinct integers entered by the user.:

Enter four integers: 53 13 20 5

Largest: 53

Second largest: 20