

## Project 11-1: Arrival Time Estimator

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Create a program that calculates the estimated hours and minutes for a trip. This should include an estimated date/time of departure and an estimated date/time of arrival.

### Console

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Arrival Time Estimator

Estimated date of departure (YYYY-MM-DD): 2018-11-23
Estimated time of departure (HH:MM AM/PM): 10:30 AM
Enter miles: 200
Enter miles per hour: 65

Estimated travel time
Hours: 3
Minutes: 4.62
Estimated date of arrival: 2018-11-23
Estimated time of arrival: 01:34 PM

Continue? (y/n): y

Estimated date of departure (YYYY-MM-DD): 2018-11-29
Estimated time of departure (HH:MM AM/PM): 11:15 PM
Enter miles: 500
Enter miles per hour: 80

Estimated travel time
Hours: 6
Minutes: 15.0
Estimated date of arrival: 2018-11-30
Estimated time of arrival: 05:30 AM

Continue? (y/n): n
```

### Specifications

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- For the date/time of departure and arrival, the program should use the YYYY-MM-DD format for dates and the HH:MM AM/PM format for times.
- For the miles and miles per hour, the program should only accept integer entries like 200 and 65.
- Assume that the user will enter valid data.
- Save the file with the filename arrival\_XXX.py where XXX is either your initials or your last name.

### Bonus: +25 points

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- If you add the following to your program, your grade on this program can be as high as 125%. This will help your overall Homework average!
- Add validation (error checking) and exception handling for all user entries. In other words, do not assume the user will enter valid data.
- If you do this part, let me know (in the Comment area of the Drop Box) that I can enter invalid data and the program will not crash.