Pair Programming 3: TidePooler

Task 0: Build & Run

- Build the TidePooler Alexa Skill using the code in your branch
- Test it on your Echo Device or in echosim.io
- What do you notice?

Task 1: Code Study

- What are the different intents in this Skill?

- What do the three Custom Slots represent?
    - Are all of them required in each intent?
    - How does Alexa respond if you don't provide values for one or more of them?

- What are Sessions being used for?
    - What information is being stored within a Session?
    - How does the use of a Session make the Skill more conversational?
    - What does each of the following represent? What values can each take on?
        - SESSION_CITY
        - SESSION_STATION
        - SESSION_DATE_DISPLAY
        - SESSION_DATE_REQUEST

- In what ways is SSML being used to enhance this Skill?

- What is the URL to which the Tide API request is being made?
    - What parameters are being included in the API request? (Refer to the NOAA API documentation)
    - What does each parameter represent?

- What code pathway does the sample utterance below follow? (i.e., what methods get called, and in what order?)
    - "When is high tide? "

Task 2: Conceptual Challenge

- What is the purpose of the CityDateValues<L, R> class?
    - What do the “L” and the “R” represent?
    - Hint: read about “Generics” in Java

- How might you achieve the same purpose without using generics?

Task 3: Coding Challenge

- There is currently a bug in the TidePooler Skill, which results in the following message sometimes being erroneously returned:
    - “Sorry, the National Oceanic tide service is experiencing a problem. Please try again later.”

Can you fix the bug?