Hands-On Test

Data Transformation (60 min.)

1. Populate a string with the following input data (in this exact multi-line format):

```
(Name)John Doe
(Age)20
(City)Ashtabula, OH
(Flags)NYN

(Name)Jane Doe
(Flags)YNY
(City)N Kingsville, OH

(Name)Sally Jones
(Age)25
(City)Paris
(Flags)YYY
```

- 2. Parse the string assuming the following rules:
 - a. The string contains a list of person records
 - b. Each person record contains the following fields:
 - i. Name
 - ii. Age (optional)
 - iii. City
 - iv. Flags
 - c. Each line contains a key/value pair for a single field
 - i. The key always comes before the value
 - ii. The key always begins with an opening parenthesis and always ends with a closing parenthesis
 - d. Person records are separated by one or more blank lines
 - e. The City line may optionally specify the State (separated by a comma)
 - f. The Flags field will always contain exactly three Y or N characters which represent the Boolean values for the following fields in this order:
 - i. Is Female
 - ii. Is Student
 - iii. Is Employee

3. Output the records to the standard output (console) so that they are displayed as follows:

```
John Doe [20, Male]
            : Ashtabula
   City
   State : OH
Student : Yes
   Employee : No
Jane Doe [Female]
            : N Kingsville
: OH
   City
   State
   Student : No
Employee : Yes
Sally Jones [25, Female]
           : Paris
: N/A
   City
   State
   Student : Yes
   Employee : Yes
```