Revision Tue:

You are aware that sustainability is very important to leave a better world for the future. Due to this reason, while evaluating projects, you decided to consider how many of the 17 sustainable goals, which was determined by the United Nation as the 2030 target[3], are supported by the project as well as existing indicators.
Add a new indicator that denotes the number of goals supported and update indicator weights as (%10, %20, %30, %35, %5) respectively. (**Hint 1**: Do not forget to update related data members.)

The updated information table is shown below.

Project ID	Indicator 1	Indicator 2	Indicator 3	Indicator 4	Indicator 5
A1	100	240	15	26	12
A2	20	407	13	11	1
A3	100	281	13	39	9
A4	80	1264	4	38	7
A5	20	1020	12	11	1
A6	100	1162	17	34	6

Scale new indicator and update credibility statement conditions as follows.

Indicator 5. $(0 < x \leq 2)$ → REMOVED
$(2 < x \leq 5)$ → x = 20
$(5 < x \leq 10)$ → x = 80
$(10 < x)$ → x = 100

Project Segment = A+ **AND** Scaled Indicator 5 = 100 **OR** 80 **OR** 20 → INVEST
= A **AND** Scaled Indicator 5 = 100 **OR** 80 **OR** 20 → INVEST
= B **AND** Scaled Indicator 5 = 100 **OR** 80 → INVEST
= C **AND** Scaled Indicator 5 = 100 → INVEST
= D → DO NOT INVEST

Create a `makeDecision` method in `Hackathon` class. It returns a 2D array of strings that holds information about the decisions. It gets projects with the credibility statement "INVEST", and creates a 2D array to hold ids, number of supported goals, and durations of projects that will be invested. (**Hint 2:** Do not forget to add the necessary accessor and mutator methods to the `Project` class.)
And the last row of the 2D array is a summary of the maximum numbers of goals supported and the maximum duration remaining to the payback period. In this row, the element of the Project ID column is "MAX:", the Goals column is the maximum number of goals supported and the Duration column is the maximum duration of projects. Lastly, call the `makeDecision` method in the `main` method and print the Investment Decision table to show the completed decision-making process results.

Hint 3: Arrays consist of the same type of elements.
Note: For the "Investment Decision" table you should only use the `System.out.print()` method to print the table name and asterisks at the beginning and the end. The rest of the table must come from the 2D array returned by the `makeDecision` method.

[3] "THE 17 GOALS". https://sdgs.un.org/goals [Accessed 11 Dec 2021]

Sample run:

```
Initial Table
*************************************************************************************
Project ID      Indicator 1     Indicator 2     Indicator 3     Indicator 4     Indicator 5
A1              100             240             15              26              12
A2              20              407             13              11              1
A3              100             281             13              39              9
A4              80              1264            4               38              7
A5              20              1020            12              11              1
A6              100             1162            17              34              6
*************************************************************************************

Modified Table
*************************************************************************************
Project ID      Indicator 1     Indicator 2     Indicator 3     Indicator 4     Indicator 5
A1              100             20              20              100             100
A2              20              20              20              80              1
A3              100             20              20              100             80
A4              80              100             100             100             80
A5              20              100             80              80              1
A6              100             100             20              100             80
*************************************************************************************

Final Table
*************************************************************************************************************************************************
***
Project ID      Indicator 1     Indicator 2     Indicator 3     Indicator 4     Indicator 5     Weighted Mean   Segment         Credibility
A1              100             20              20              100             100             60.0            C               INVEST
A2              20              20              20              80              1               40.05           D               REMOVED
A3              100             20              20              100             80              59.0            D               DO NOT
INVEST
A4              80              100             100             100             80              97.0            A               INVEST
A5              20              100             80              80              1               74.05           C               REMOVED
A6              100             100             20              100             80              75.0            B               INVEST
*************************************************************************************************************************************************
***

Investment Decision
*****************************************
ProjectID       Goals           Duration
A1              12              15
A4              7               4
A6              6               17
-----------------------------------------
     MAX:       12              17
*****************************************
```