

Write a Java program that has three parallel arrays defined in the following way:

name:	age:	gpa:
Ozzy	15	1.23
Madonna	14	3.52
Pele	17	3.41
Maradonna	14	2.88
Posh	16	2.65
Leonardo	18	3.87

Parallel arrays are set up so that each array, for a given index value, contains information that is related. For example, the person in array `name[index = 2]` has a grade average in array `gpa[index=2]`, and the age of the person is `age[index=2]` years old. So “Pele” is 17 years old and has a gpa equal to 3.41.

Create these arrays with these initial values stored in them. Write a program that has three **public static** functions defined in the following table:

Method name	Return type	Input arguments	Actions
<code>top_of_class</code>	String	<code>name[], gpa[]</code>	Exams entries in array <code>gpa</code> and returns the name of the person with the highest gpa.
<code>avg</code>	double	<code>gpa</code>	Returns the average gpa of all people.
<code>how_old</code>	int	<code>name[], target, age[]</code>	Returns the age of the person whose name is stored in variable <code>target [String]</code>

Your main method will have a loop that will ask the user what option she wants to take and display 4 choices:

1. find and display the student with the highest gpa
2. calculate and display the average gpa for all students
3. find the age of a specific person [this will require an additional input for a name], display the name and age
4. quit

While the user selects 1 through 3, process the request by calling the appropriate method, display the 4 options and ask the user for her input. Keep processing requests until the user selects option 4.

Document each method in your program with internal comments. Turn in your program according to usual submission instructions.