Write a function evaluateEmployee that representing an employee's performance data. The object has the following properties:

* name (string): The employee's name
* role (string): The employee's role, which can be 'Developer', 'Manager', or 'Intern'
* experience (number): The number of years the employee has worked in the company
* projectsCompleted (number): The number of projects the employee has completed
* rating (number): The performance rating of the employee (1 to 5)

The function should return a string that categorizes the employee's performance based on the following criteria:

1. If the rating is less than 3:
   * If the role is 'Intern', return "Underperforming Intern".
   * If the role is 'Developer' or 'Manager', return "Needs Improvement".
2. If the rating is 3 or 4:
   * If the role is 'Intern', return "Average Intern".
   * If the role is 'Developer' or 'Manager':
     + If the experience is less than 2 years, return "Promising Newcomer".
     + If the experience is 2 years or more but less than 5 years, return "Solid Performer".
     + If the experience is 5 years or more, return "Experienced Professional".
3. If the rating is 5:
   * If the role is 'Intern', retur n "Star Intern".
   * If the role is 'Developer' or 'Manager' and projects completed are:
     + Less than 5, return "Potential Star".
     + Between 5 and 15, return "Star Performer".
     + More than 15, return "Top Performer".

2 . Write a function classifyGrade that takes a grade (number between 0 and 100) as input and returns the corresponding letter grade based on the following scale:

* A: 90-100
* B: 80-89
* C: 70-79
* D: 60-69
* F: <60

3 . Write a function identifyCharType that takes a single character as input and returns whether the character is a vowel, consonant, digit, or special character. Use a combination of if-else and switch statements.

4 . Write a function calculateBMI that takes weight (in kg) and height (in meters) as input and returns the BMI category:

* Underweight: BMI < 18.5
* Normal weight: 18.5 <= BMI < 24.9
* Overweight: 25 <= BMI < 29.9
* Obesity: BMI >= 30

5 . Write a function classifyNumber that takes a number as input and classifies it as:

* "Positive Even" if it's positive and even
* "Positive Odd" if it's positive and odd
* "Negative Even" if it's negative and even
* "Negative Odd" if it's negative and odd
* "Zero" if it's zero

6 . Write a function calculateBill that takes the number of units consumed and calculates the electricity bill based on the following rates:

* First 100 units: $0.5 per unit
* Next 100 units: $0.75 per unit
* Next 200 units: $1.20 per unit
* Above 400 units: $1.50 per unit

7 . Write a function that takes the current hour (0-23) as input and returns a greeting:

* "Good Morning" for 5-11
* "Good Afternoon" for 12-16
* "Good Evening" for 17-20
* "Good Night" for 21-4

8 . Write a function checkTriangle that takes three side lengths of a triangle as input and returns the type of triangle:

* Equilateral: All sides are equal
* Isosceles: Two sides are equal
* Scalene: All sides are different

9 . Write a function calculateGPA that takes an array of letter grades (A, B, C, D, F) and returns the GPA based on the following scale:

* A: 4.0
* B: 3.0
* C: 2.0
* D: 1.0
* F: 0.0

10 . Write a function getDayOfWeek that takes a number (0-6) representing the day of the week (0 for Sunday, 1 for Monday, etc.) and returns the name of the day using a switch statement.