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/*
* Design a class to overload a function series() as follows:
* a. void series(int x, int n) - To display the sum of the series given below
*  x^1 + x^2 + x^3 + ..... x^n terms
* b. void series(int p) - To display the following series
*  0, 7, 26, 63 ..... p terms
* c. void series() - To display the sum of the series given below
* 1/2 + 1/3 + 1/4 ..... 1/10
*/
class overloading {
   void series(int x, int n) {
      int sum = 0;
      for (int i = 1; i <= n; i++) {
         sum += Math.pow(x, i);
      }
      System.out.println("The sum of the first series is " + sum);
   }
```

```
 void series(int p) {
      for (int i = 1; i <= p; i++) {
     System.out.print((int) (Math.pow(i, 3) - 1) + ", ");
      }
   }
   void series() {
      double sum = 0.0;
      for (int i = 2; i <= 10; i++) {
         sum += (double) 1 / i;
      }
      System.out.println();
      System.out.println("The sum of the third series is " + sum);
   }
   public static void main(String args[]) {
      overloading obj = new overloading();
      obj.series(5, 4);
      obj.series(10);
      obj.series();
   }
}
```