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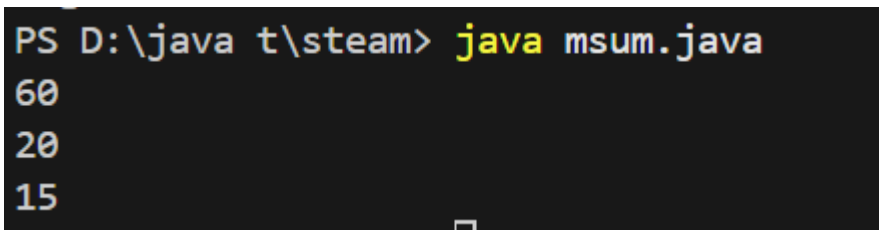
23CDR007

1)

```
public class msum {
    public static int sum(int... numbers) {
        int total = 0;
        for (int num : numbers) {
            total += num;
        }
        return total;
    }

    public static void main(String[] args) {
        System.out.println(sum(10, 20, 30));
        System.out.println(sum(5, 15));
        System.out.println(sum(1, 2, 3, 4, 5));
    }
}
```

OUTPUT:

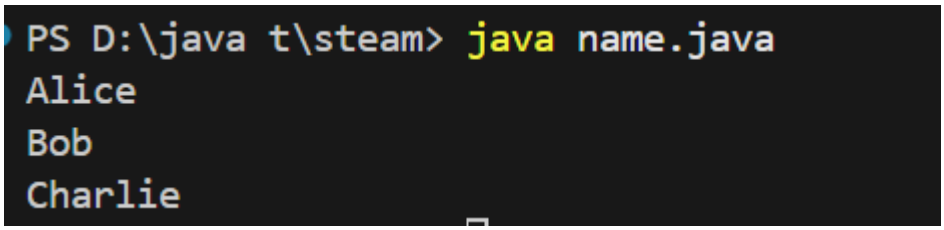


2)

```
public class name {

    // Method with varargs
    public static void printNames(String... names) {
        for (String name : names) {
            System.out.println(name);
```

```
    }
  }

  public static void main(String[] args) {
    // Sample input
    printNames("Alice", "Bob", "Charlie");
  }
}
```

OUTPUT:

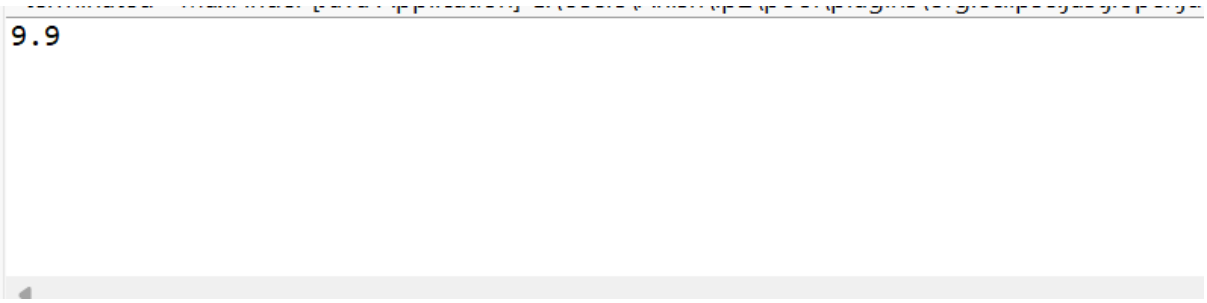


3)

```
public class MaxFinder {

  // Method to find maximum among double values using varargs
  public static double findMax(double... numbers) {
    if (numbers.length == 0) {
      throw new IllegalArgumentException("At least one number is required");
    }

    double max = numbers[0];
    for (double num : numbers) {
      if (num > max) {
        max = num;
      }
    }
    return max;
  }

  public static void main(String[] args) {
```

```
        double result = findMax(2.3, 5.5, 1.1, 9.9);
        System.out.println(result);  // Expected Output: 9.9
    }
}
```

OUTPUT:



4)
```
package JAVA;
public class MaxFinder {
    public static double COUNT(int... numbers) {
            int c=0;
       for(int i:numbers) c++;
        return c;
    }
    public static void main(String[] args) {
        double result = COUNT(2, 5, 1, 9);
        System.out.println(result);
    }
}
```

OUTPUT:

5)

```
package JAVA;
public class MaxFinder {
   public static String COUNT(String s,String st) {
      return s.concat(st);
   }
   public static void main(String[] args) {
      String result = COUNT("hello ","world");
      System.out.println(result);
   }
}
```

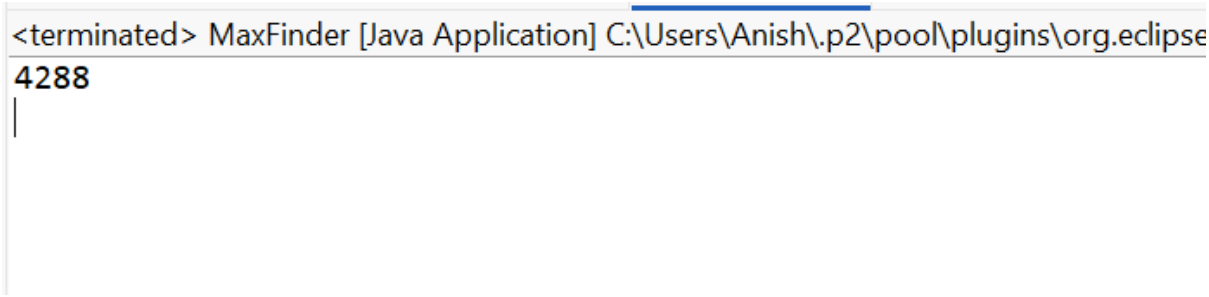
OUTPUT:

```
helloworld
```

6)

```
package JAVA;
public class MaxFinder {
   public static int mul(int... n) {
         int m=1;
         for(int i:n) {
               m*=i;
         }
      return m;
   }
   public static void main(String[] args) {
      int result = mul(1,2,4,67,8);
      System.out.println(result);
   }
}
```

OUTPUT:



7)

```
package JAVA;

public class MaxFinder {

   public static void mul(int... n) {

         for(int i=n.length-1;i>=0;i--) {

               System.out.print(n[i]+" ");

         }


   }

   public static void main(String[] args) {

      mul(1,2,4,67,8);


   }

}
```

OUTPUT:

8)

```
package JAVA;

public class MaxFinder {
```

```
    public static double mul(int... n) {
            int c=0,s=0;
            for(int i:n) {
                    s+=i;
                    c++;
            }
            return (double)s/c;

    }
    public static void main(String[] args) {
       double re=mul(1,2,4,67,8);
            System.out.print(re);
    }
}
```

OUTPUT:

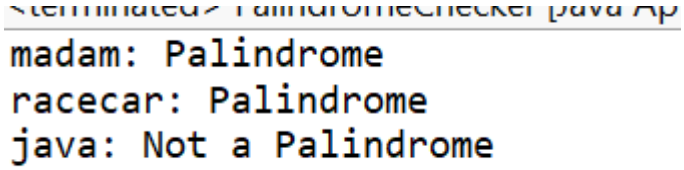
```
<terminated> MaxFinder [Java Application] C:\Users\Anish\.p2\pool\plugins\org.eclipse.j
16.4
```

9)

```
package JAVA;
public class PalindromeChecker {
    public static void checkPalindromes(String... words) {
        for (String word : words) {
            if (isPalindrome(word)) {
                System.out.println(word + ": Palindrome");
            } else {
                System.out.println(word + ": Not a Palindrome");
            }
        }
```

```
    }
    private static boolean isPalindrome(String str) {
        int left = 0, right = str.length() - 1;
        while (left < right) {
            if (str.charAt(left) != str.charAt(right)) {
                return false;
            }
            left++;
            right--;
        }
        return true;
    }

    public static void main(String[] args) {
        checkPalindromes("madam", "racecar", "java");
    }
}
```

OUTPUT:



10)

```
package JAVA;
public class WordCounter {

    // Method to count total words in all strings using varargs
    public static int countWords(String... sentences) {
        int totalWords = 0;
        for (String sentence : sentences) {
            if (sentence != null && !sentence.trim().isEmpty()) {
```

```
            // Split by spaces and count words
            String[] words = sentence.trim().split("\\s+");
            totalWords += words.length;
        }
    }
    return totalWords;
}

public static void main(String[] args) {
    int result = countWords("Hello world", "Java programming", "OpenAI");
    System.out.println(result);  // Expected Output: 5
}
}
```

OUTPUT: