

Funktionell Nedbrytning

Joachim von Hacht

Funktionell Nedbrytning (1)

```
int[][] m1 = {  
    {1, 1, 3},  
    {1, 2, 2},  
    {1, 0, 3},  
};  
int[][] m2 = {  
    {0, 1, 3},  
    {1, 3, 2},  
    {0, 1, 2},  
};
```

Hur bryta ner metoden
countPairs?

```
// There are 2 pairs (x,y) with x from m1 and y from m2 that  
// sums to 0  
out.println(countPairs(m1, m2, 0)); // 2  
// There are 8 pairs (x,y) with x from m1 and y from m2 that  
// sums to 5  
out.println(countPairs(m1, m2, 5)); // 8
```

Funktionell Nedbrytning (2)

```
int[][] matrix1 = {  
    {7, 1, 3, 6},  
    {6, 2, 7, 1},  
    {8, 9, 1, 3},  
    {5, 6, 9, 1},  
};  
  
int[][] matrix2 = {  
    {7, 1, 3, 9},  
    {6, 9, 7, 1},  
    {7, 9, 1, 3},  
    {5, 7, 9, 1},  
};
```

Hur bryta ner metoden
getCommonRowElements?

```
// Output [1]
```

```
out.println(Arrays.toString(getCommonRowElements(matrix1)));
```

```
// Output [7, 1, 9]
```

```
out.println(Arrays.toString(getCommonRowElements(matrix2)));
```

Funktionell Nedbrytning (3)

```
int[][] matrix1 = {  
    {7, 1, 3, 6},  
    {6, 2, 7, 1},  
    {8, 9, 1, 3},  
    {5, 6, 9, 1},  
};  
int[][] matrix2 = {  
    {7, 1, 3, 9},  
    {6, 9, 7, 1},  
    {7, 1, 3, 9},  
    {7, 1, 3, 9},  
};
```

// Output: 4

```
out.println(uniqueRows(matrix1));
```

// Output: 2

```
out.println(uniqueRows(matrix2));
```

Hur bryta ner metoden
uniqueRows?

Funktionell Nedbrytning (5)

```
String str1 = "Sirap i paris";  
String str2 = "Madam I'm Adam";  
String str3 = "Was It A Rat I Saw?";  
String str4 = "Can a get a hot dog?";
```

Hur bryta ner metoden
isPalindrome?

```
out.println(isPalindrome(str1));    // True  
out.println(isPalindrome(str2));    // True  
out.println(isPalindrome(str3));    // True  
out.println( ! isPalindrome(str4)); // True
```