

Truly Exceptional



```
static int P(int[] a, int i){  
    int res = a[i];  
    try{ return res + P(a,i+1); }  
    catch (Exception e) { return 5; }  
}  
  
static int Q(int[] a, int i){  
    try{ return a[i] + Q(a,i+1); }  
    catch (Exception e) { return 5; }  
}  
  
public static void main(String[] args) {  
    int[] a = {1,2,3,4};  
    System.out.println(P(a,0));  
    System.out.println(Q(a,0));}  
}
```

Was gibt das Programm aus?

- (1) [Fehlermeldung]
- (2) 0, dann [Fehlermeldung]
- (3) 10, dann [Fehlermeldung]
- (4) 11, dann [Fehlermeldung]
- (5) 15, dann [Fehlermeldung]
- (6) 0, 10
- (7) 10, 10
- (8) 11, 11
- (9) 11, 15
- (10) 15, 15

Erklärung



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    System.out.println(P(a,0));  
    System.out.println(Q(a,0));}  
}
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P(a,0) ok bis P(a,3), dann try
return P(a,4). Exception in P(a,4)
[out of bounds!] dadurch catch
block in P(a,3) gibt 5 zurück.

$$5 + 3 + 2 + 1 = 11$$

Erklärung



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    System.out.println(P(a,0));  
    System.out.println(Q(a,0));}  
}
```

Q(a,0) ok bis Q(a,3), dann try
return Q(a,4) in Q(a,4).
Exception in Q(a,4) [out of
bounds!] dadurch **catch block in**
Q(a,4) gibt 5 zurück.

$$5 + 4 + 3 + 2 + 1 = 15$$

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- (5) 15, dann [Fehlermeldung]
- (6) 0, 10
- (7) 10, 10
- (8) 11, 11
- (9) 11, 15**
- (10) 15, 15