
Intersection (2)**X79913_en**

Let a, b, c, d be integers such that $a \leq b$ and $c \leq d$. Write a function `@intersection2(a, b, c, d)@` that computes the intersection of intervals $[a, b]$ and $[c, d]$. When the intersection is non empty the function has to return tuple $(True, p, q)$ where integers p and q are such that $[p, q] = [a, b] \cap [c, d]$. If the intersection is empty, the function must return tuple $(False, 1, 0)$

Sample session

```
>>> intersection2(1, 5, 6, 7)
(False, 1, 0)
>>> intersection2(10, 16, 12, 15)
(True, 12, 15)
>>> intersection2(3, 5, 2, 11)
(True, 3, 5)
>>> intersection2(1, 4, 4, 6)
(True, 4, 4)
```

Problem information

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