
Intersection**X96828_en**

Let a, b, c, d be integers such that $a \leq b$ and $c \leq d$. Write a function `@intersection(a, b, c, d)` that assuming that intersection of intervals $[a, b]$ and $[c, d]$ is non empty returns the tuple of integers (p, q) such that $[p, q] = [a, b] \cap [c, d]$.

Sample session

```
>>> intersection(1, 5, 3, 7)
(3, 5)
>>> intersection(10, 16, 12, 15)
(12, 15)
>>> intersection(3, 5, 2, 11)
(3, 5)
>>> intersection(1, 4, 4, 6)
(4, 4)
```

Problem information

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