

---

## Do They Intersect?

X52569\_en

---

Let  $a, b, c, d$  be integers such that  $a \leq b$  and  $c \leq d$ . Write a function `do_they_intersect(a, b, c, d)` that tells us whether the *open* intervals  $(a, b)$  and  $(c, d)$  have a nonempty intersection.

### Observation

Only the function will be evaluated. If your submission includes a main program (e.g. with `testmod`), it must be either commented out or inside a condition `if __name__ == '__main__':`

### Problem information

Author: Jordi Delgado and José Luis Balcázar

Generation: 2026-01-25T16:47:56.524Z

© *Jutge.org*, 2006–2026.

<https://jutge.org>