
Commuter Trains**X40763_en**

The manager of Sants station has designed a system for assigning arriving commuter trains to the station's tracks. There are four commuter rail lines, 1, 2, 3, and 4, and two possible directions: "N" (north) and "S" (south). The track assignments are as follows. For line 1, northbound trains use track 8 and southbound trains use track 7. For line 2, the tracks are 10 (north) and 9 (south). For line 3, the tracks are 12 (north) and 13 (south). Finally, for line 4, the tracks are 14 (north) and 15 (south).

Design the function *cercanias(linea,sentido)*, which takes a positive integer *linea* representing the commuter rail line and a character *sentido* indicating the direction ("N" for north and "S" for south), and returns the corresponding track number. If the line or direction is invalid, the function must return 0.

Sample session

```
>>> cercanias(3, 'N')
12
>>> cercanias(7, 'N')
0
>>> cercanias(4, 'S')
15
>>> cercanias(2, 'W')
0
```

Problem information

Author: infbesos

Translator: infbesos

Generation: 2026-10-13T21:52:45.513Z

© Jutge.org, 2006–2026.

<https://jutge.org>