

Ten sentences

In a list of 10 statements, the n^{th} statement says there are exactly n false items in the list. Which of the statements, if any, are false?

- 1 In this list exactly 1 statement is false.
- 2 In this list exactly 2 statements are false.
- 3 In this list exactly 3 statements are false.
- 4 In this list exactly 4 statements are false.
- 5 In this list exactly 5 statements are false.
- 6 In this list exactly 6 statements are false.
- 7 In this list exactly 7 statements are false.
- 8 In this list exactly 8 statements are false.
- 9 In this list exactly 9 statements are false.
- 10 In this list exactly 10 statements are false.