6 T-shirts
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## Challenge

33 pixies are standing in a circle. Each of the pixies is wearing either a red or a green T-shirt. If two pixies are direct neighbors in the circle, at most one of them is wearing a red T-shirt. If two pixies in the circle are separated by exactly 15 other pixies, at most one of the two is wearing a red T-shirt.

What is the largest possible number of pixies with a red T-shirt?


Artwork: Julia Nurit Schönnagel

## Possible answers:

1. The largest possible number of pixies with a red T-shirt is 7 .
2. The largest possible number of pixies with a red T-shirt is 8 .
3. The largest possible number of pixies with a red T-shirt is 9 .
4. The largest possible number of pixies with a red T-shirt is 10 .
5. The largest possible number of pixies with a red T-shirt is 11 .
6. The largest possible number of pixies with a red T-shirt is 12 .
7. The largest possible number of pixies with a red T-shirt is 13 .
8. The largest possible number of pixies with a red T-shirt is 14 .
9. The largest possible number of pixies with a red T-shirt is 15 .
10. The largest possible number of pixies with a red T-shirt is 16 .
