

Brian's Puzzle of the Week: 8

Two robbers steal a valuable necklace of black and white pearls. (The pearls are evenly spaced, but the colours are not necessarily alternating or even symmetric.)

The robbers decide that the fairest way to share the necklace is to cut it in half.



Prove that, *no matter what the necklace looks like*, if it consists of an even number of black pearls and an even number of white pearls, then it can be cut into two pieces each having half the black pearls and half the white pearls.