

## Questions

1. What is the optimal next move in the following game of Nim?

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## Answers

1. Nim piles: 9 (1001) 6 (110) 4 (100)  
Biggest heap has 4 bits  
Nim sum is not zero, it is 1011.  
Significant bit is 4  
9 6 4 Change heap 1 from 9 to 2