

Mizzou AMS Student Chapter

Problem of the Week

Week 5

A game starts with 1001 numbers $1017, 1018, \dots, 2016, 2017$. During each turn, two numbers j and k are selected. The two numbers j and k are removed and replaced by the single number $jk + j + k$. After 1000 turns, you are left with a single number. What can you say about the final number?

