## FIGURE 9-4 Sample run of the Nim game



Nim

Welcome to the game of Nim!
In this game, we will start with a pile of
13 coins on the table. On each turn, you
and I will alternately take between 1 and
3 coins from the table. The player who
takes the last coin loses.

How many would you like? 2
There are 11 coins in the pile.
I'll take 2.
There are 9 coins in the pile.
How many would you like? 3
There are 6 coins in the pile.
I'll take 1.
There are 5 coins in the pile.
How many would you like? 1
There are 4 coins in the pile.
I'll take 3.
There is only one coin left.
I win.

There are 13 coins in the pile.