

If two Emeralds and one Ruby were drawn, Diamondbot would bid \$23 ($2 \times \$10 + 1 \times \$3 = \23).
If two Coal, one Gold and one Ruby were drawn, Diamondbot would bid \$10 ($2 \times \$1 + \$5 + \3).

Both robots will only bid as much as they need to. For example, if 3 Coal come out of the mine and the highest bid for them is \$5 Fourager (who usually spends \$4 per item) would only bid \$6 if they were the last player to go, instead of the \$12 they would usually spend.

If possible, both robots will always take 4 gems from the mine when it is their turn to do so.

Your mission is to play a 3-player game against both *Fourager* and *Diamondbot* to prove that humans are still smarter than robots.

2. Create your own Rob-o-pponent

Design your own robot, which will automatically follow specific rules when bidding. Make sure you think through what your robot will do in different situations and play a few test games before you release your robot to the public.

Once your robot is complete, find two other classmates and play an all robot three player game. The winning robot should then be put to the test against a human player.

Can you create a robot smarter than a human?