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import java.util.ArrayList;
/* This class encapsulates player position and direction
public class Player extends Moveable {
      private boolean readyToStart = false;
      private int presses = 0, energy = 200;
      private int roadblockPut = 0;
      private ArrayList<Trap> traps = new ArrayList<Trap>();
      private ArrayList<Roadblock> roadblocks = new ArrayList<Roadblock>();
      private boolean canPutTrap = true, canPutBlock = true;
      public Player(Grid g, int row, int col) throws Exception {
             super(g);
             currentCell = grid.getCell(row, col);
             currentDirection = ' ';
      public Cell move(int presses) {
             boolean canMove = false;
             if ((presses == 1 && energy >= 2) || (presses == 2 && energy >= 6) ||
(presses == 3 \&\& energy >= 14)) {
                    canMove = true;
             if (getTrap().size() > 0)
                    for (int i = 0; i < getTrap().size(); ++i) {</pre>
                           getTrap().get(i).decTime();
                           if (getTrap().get(i).getTime() == 0) {
                                 getTrap().remove(i);
                    }
             if (canMove) {
                    currentCell = grid.getCell(currentCell, currentDirection,
presses);
                    if (currentCell.gotGold) {
                           energy += 6;
                           currentCell.gotGold = false;
                    if (presses == 1) {
                          energy -= 2;
                    } else if (presses == 2) {
                          energy -= 6;
                    } else if (presses == 3) {
                           energy -= 14;
             if (presses != 0) {
                    allowPut();
             }
             clearPress();
             return currentCell;
       }
       // keypress count for moving multiple cells
      public int getPresses() {
             return presses;
       }
      public void setEnergy(int energy) {
             this.energy = energy;
      public int getEnergy() {
             return energy;
      public ArrayList<Roadblock> getBlock() {
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return roadblocks;
public ArrayList<Trap> getTrap() {
     return traps;
// eating nougats
public void eat() {
    energy += 6;
public void addPress() {
     if (presses < 3) {
            presses += 1;
public void clearPress() {
     presses = 0;
public void putTrap() {
      if (canPutTrap && energy >= 50) {
             traps.add(new Trap(grid, currentCell));
             energy -= 50;
             canPutTrap = false;
      }
}
public void putBlock() {
      if (canPutBlock && roadblockPut < 3) {</pre>
             roadblocks.add(new Roadblock(grid, currentCell));
             roadblockPut += 1;
             canPutBlock = false;
      }
public void allowPut() {
      canPutTrap = true;
      canPutBlock = true;
}
public void setReady(boolean val) {
     readyToStart = val;
public boolean isReady() {
      return readyToStart;
```

}