



perpetuum automobile

ELIZA: You've made several designs for perpetual motion machines that would provide power forever which, alas, didn't work. The cars below don't run perpetually, either, but at least their fuel sources are renewable, so that's a start.

Each of the fuels below powers a car in the grid (which fuel goes with which car is for you to determine). The first letter of the fuel goes into the car, and each following letter goes into a circle. The numbers next to the fuels, combined with the "drive wheel" tell you what path to follow. For example, from the starting position of the car itself, a "0256" means that the car moves one node east, then moves one node southwest, then one node west.

One path has been filled in as an example. All circles are used, and no circle is used more than once.

When you have filled in the entire grid, it turns out that one of the cars actually *is* a perpetual motion machine, and will travel forever along a path with the directions 222288666644222288.... (it's so powerful that it can cross over circles and other cars). Write down the letters it crosses.

What does that car have that enables it to run forever? **WHEELS WITHIN WHEELS WITHIN WHEELS....**

0742 - WIND	01436 - WAVES
05367 - ALGAE	0654446 - BIOFUEL
05313 - HYDRO	0757761 - ETHANOL
05353 - TIDES	06653123 - SUNLIGHT

