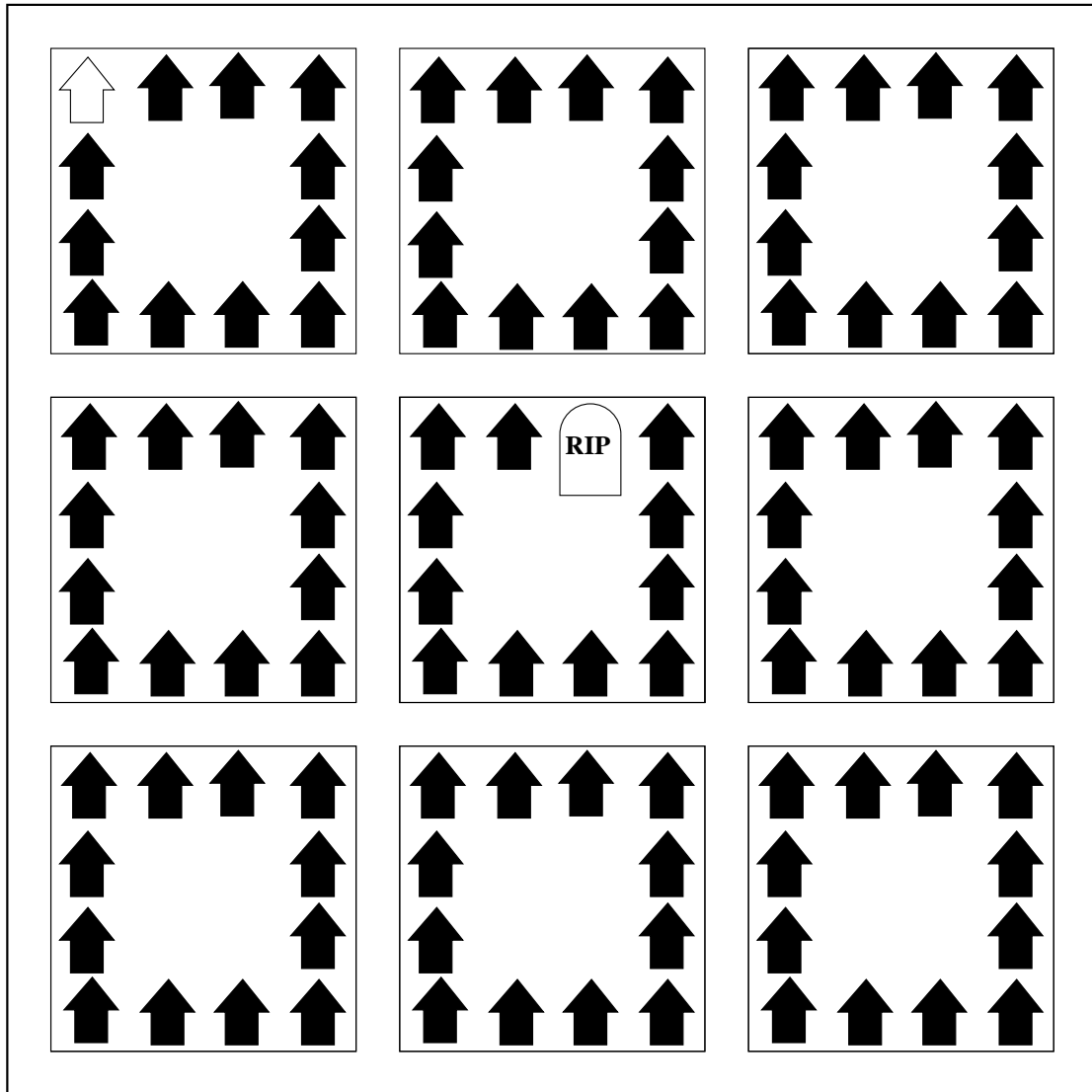


WE WANT CANDY!!!!

Halloween Homework



- 1) Beginning (and ending) at the white house, what is the best (shortest) way to trick-or-treat through the entire neighborhood (assume that you hit the houses on both sides of the road when you walk down a street). You are allowed to walk down a street more than once, but you want to do that as few of times as possible.
- 2) But what about that spooky, haunted cemetery in the middle of the neighborhood? What is the best (shortest) way to trick-or-treat the entire neighborhood (except for the cemetery road) IF you are too much of a fraidy-cat to walk by the cemetery?
- 3) You are going out right before dinner. Your mom says that you only have time to walk down 20 street-blocks (our neighborhood has 24 street-blocks). What is the best route to take to make sure you get the Optimal Candy Outcome? In this case, assume you are in too much of a hurry to worry about avoiding the spooky, haunted cemetery.