



3. Say you start from floor 10 and want to get to floor 14. What is the minimum number of buttons you have to push to get there? Is there only one way. What about floor 28? 42?

4. Say you are on floor 10 on another elevator and the only buttons available were  $-2$  and  $+6$ . What buttons do you need to push to get to floor 1?

5. What combinations of floor and two buttons make certain levels "off limits" to an elevator? Explain your work.