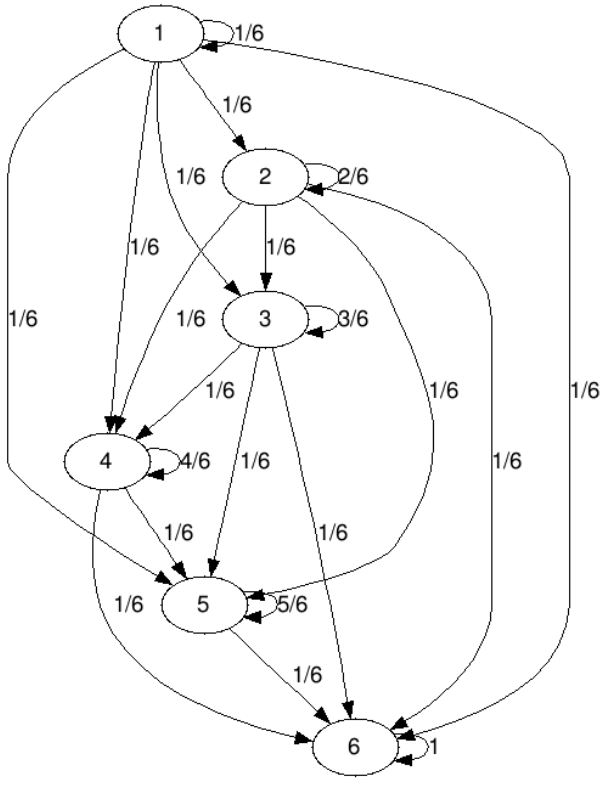
Příklad
A dice is rolled repeatedly. Which of the following are Markov chains? For those that are, supply the transition graph.

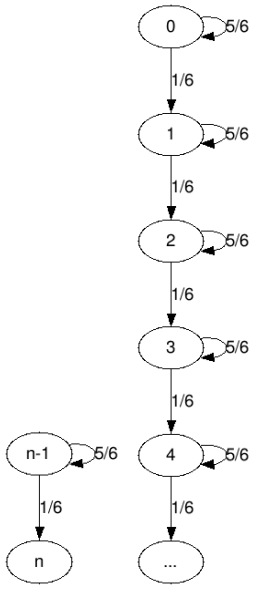
- M_t is the largest number shown on the dice up to the t-th roll.
- N_t is the number of sixes in first t rolls.
- A_t is the time since ("after") the most recent six. (So $A_t = 0$ when the t-th roll was a six, $A_t = 1$ when $(t-1)$-st was a six, but not the t-th, etc.
- B_t is the time before the next six. (So $B_t = 0$ when the t-th roll was a six, $B_t = 1$ when $(t+1)$-st was a six, but not the t-th, etc.

Řešení
All of them are Markov chains. Graphs are made with `https://mxwell.github.io/draw-graph/`.

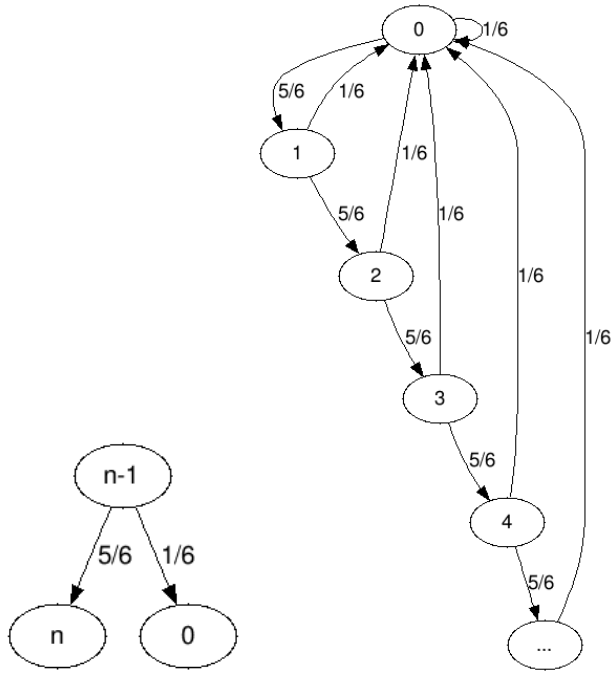
Řešení (The transition graph for the first one)



Řešení (The transition graph for the second one)



Řešení (The transition graph for the third one:)



Řešení (The transition graph for the fourth one:)