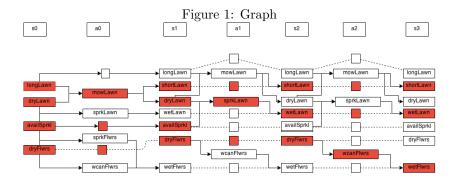
TDT4136 - Assignment 6

Filip F Egge November 14, 2014

Planning - Question 1

1. Figure with the planning graph and the highlighted plan



2. Explanation for why do you need (or not) to expand at each level

Level S_0

This is the initial state condition and we need to expand with the available actions.

Level S_1

At this level we have not yet accieved the goal solution, and we apply all actions. From the previous actions i observed that using the *sprkFlwrs* action use up the only way to water the lawn. I have At this level we have applied all possible actions and but have not yet accieved the goal.

Level S_2

For this level we apply the all possible actions (except sprkFlwrs), and yet we have not reached the goal state.

Level S_3

Here we have reached the goal and does not need to expand another level.

3. A list of actions representing a plan that solves the gardening problem

The solution for the gardening problem i came up with applies the following actions.

- mowLawn
- sprkLawn
- wcanFlwrs

4. Explanation of how you obtained the plan in 3. from the planning graph

It was pretty obvious that one of the first step would be mowLawn. This action requires that the dryLawn condition is present. And this have to be done before the lawn is watered. The next step in my solution is sprkLawn. And the last step is wcanFlwrs.