

Nama: Muhamad abdustryukur

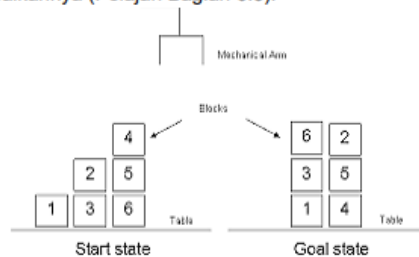
Nim: 2106065

Kelas: Informatika A

Mata kuliah: Praktikum Kecerdasan Buatan (8)

Soal 05-1A

Jika ditemukan *initial state* dan *goal state* seperti gambar dibawah ini, gunakan metode *Goal Stack Planning* untuk menyelesaikannya (Pelajari Bagian 6.3)!

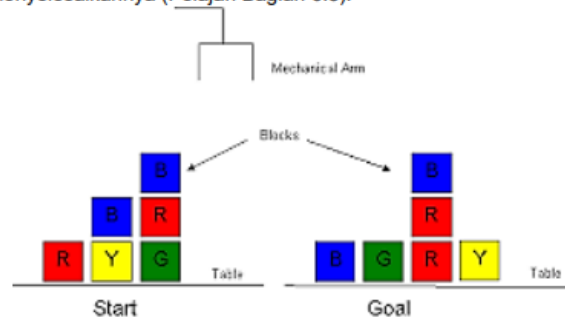


Penyelesaian :

- Initial state : $\text{ON}(2,3) \wedge \text{ON}(5,6) \wedge \text{ON}(4,5) \wedge \text{ONTABLE}(1) \wedge \text{ONTABLE}(3) \wedge \text{ONTABLE}(6) \wedge \text{CLEAR}(1) \wedge \text{CLEAR}(2) \wedge \text{CLEAR}(4) \wedge \text{ARMEMPTY}$
- Goal state : $\text{ON}(3,1) \wedge \text{ON}(6,3) \wedge \text{ON}(5,4) \wedge \text{ON}(2,5) \wedge \text{ONTABLE}(1) \wedge \text{ONTABLE}(4) \wedge \text{CLEAR}(6) \wedge \text{CLEAR}(2) \wedge \text{ARMEMPTY}$

Soal 05-1B

Jika ditemukan *initial state* dan *goal state* seperti gambar dibawah ini, gunakan metode *Goal Stack Planning* untuk menyelesaikannya (Pelajari Bagian 6.3)!

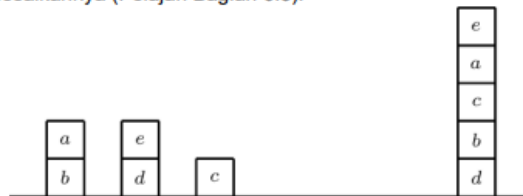


Penyelesaian :

- Initial state : $\text{ON}(\text{B}, \text{Y}) \wedge \text{ON}(\text{R}, \text{G}) \wedge \text{ON}(\text{B}, \text{R}) \wedge \text{ONTABLE}(\text{R}) \wedge \text{ONTABLE}(\text{Y}) \wedge \text{ONTABLE}(\text{G}) \wedge \text{CLEAR}(\text{R}) \wedge \text{CLEAR}(\text{B}) \wedge \text{ARMEMPTY}$
- Goal state : $\text{ON}(\text{R}, \text{R}) \wedge \text{ON}(\text{B}, \text{R}) \wedge \text{ONTABLE}(\text{B}) \wedge \text{ONTABLE}(\text{G}) \wedge \text{ONTABLE}(\text{R}) \wedge \text{ONTABLE}(\text{Y}) \wedge \text{CLEAR}(\text{B}) \wedge \text{CLEAR}(\text{G}) \wedge \text{CLEAR}(\text{Y}) \wedge \text{ARMEMPTY}$

Soal 05-1C

Jika ditemukan *initial state* dan *goal state* seperti gambar dibawah ini, gunakan metode *Goal Stack Planning* untuk menyelesaikannya (Pelajari Bagian 6.3)!



Penyelesaian :

- Initial state : $\text{ON}(\text{a}, \text{b}) \wedge \text{ON}(\text{e}, \text{d}) \wedge \text{ONTABLE}(\text{b}) \wedge \text{ONTABLE}(\text{d}) \wedge \text{ONTABLE}(\text{c}) \wedge \text{CLEAR}(\text{a}) \wedge \text{CLEAR}(\text{e}) \wedge \text{CLEAR}(\text{c}) \wedge \text{ARMEMPTY}$
- Goal state : $\text{ON}(\text{b}, \text{d}) \wedge \text{ON}(\text{c}, \text{b}) \wedge \text{ON}(\text{a}, \text{c}) \wedge \text{ON}(\text{e}, \text{a}) \wedge \text{ONTABLE}(\text{d}) \wedge \text{CLEAR}(\text{e}) \wedge \text{ARMEMPTY}$