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BİCİMSİZ DİLLER VE OTOMATA TEORİSİ

FINAL ÖDEV 5-

Problem 4.1.2

(a) $(q_0, Dabb Ubb UUU aba) \vdash_M (q_0, Dabb Ubb UUU aba)$
 $\vdash_M (q_0, Dabb Ubb UUU aba)$
 $\vdash_M (q_0, Dabb Ubb UUU aba)$
 $\vdash_M (q_0, Dabb Ubb UUU aba)$
 $\vdash_M (q_0, Dabb Ubb UUU aba)$
 $\vdash_M (q_0, Dabb Ubb UUU aba)$
 $\vdash_M (q_0, Dabb Ubb UUU aba)$
 $\vdash_M (q_0, Dabb Ubb UUU aba)$
 $\vdash_M (q_1, Dabb Ubb UUU aba)$
 $\vdash_M (q_1, Dabb Ubb UUU aba)$
 $\vdash_M (q_1, Dabb Ubb UUU aba)$
 $\vdash_M (q_1, Dabb Ubb UUU aba)$
 $\vdash_M (q_2, Dabb Ubb UUU aba)$
 $\vdash_M (h, Dabb Ubb UUU aba)$

(b) M, bir a bulana kadar sağa tarar, sonra a b bulana kadar sola, sonra a U bulana kadar tekrar sağa tarar ve sonra durur.

Problem 4.1.3

(a) $(q_0, Daaabbbbaa) \vdash_M (q_2, Daaabbbbaa)$
 $\vdash_M (q_1, Daaabbbbaa)$
 $\vdash_M (q_2, Daaabbbbaa)$
 $\vdash_M (q_1, Daaabbbbaa)$
 $\vdash_M (q_2, Daaabbbbaa)$
 $\vdash_M (q_3, Daaabbbbaa)$
 $\vdash_M (q_4, Daaabbbbaa)$
 $\vdash_M (q_4, Daaabbbbaa)$
 $\vdash_M (q_4, Daaabbbbaa)$
 $\vdash_M (q_2, Daaabbbbaa)$
 $\vdash_M (q_1, Daaabbbbaa)$
 $\vdash_M (q_2, Daaabbbbaa)$
 $\vdash_M (h, Daaabbbbaa)$

(b) Özellikle karmaşık olmamada, bu Turing makinelerinin eylemleri, belirli bir hesaplama ile ilgili olan δ 'nin girisini bozarak listelemekten çok daha azdır bu şekilde tanımlanmaz.