

4.1.2 a) $(q_0, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba) \vdash_M (q_0, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

b) M bir a bulana kadar
sağ tararı. Ardından
ab buluncaya kadar
solu tararı. Daha son-
ra bir u bulana
kadar tutar sağa
ve durur.

$\vdash_M (q_0, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_0, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_0, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_0, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_0, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_0, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_0, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_1, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_1, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_1, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_1, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (q_2, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

$\vdash_M (h, \Delta abba \underline{b} bbb \underline{u} \underline{u} \underline{u} aba)$

4.1.3 a) $(q_0, \Delta \underline{a} aabbaa) \vdash_M (q_2, \Delta \underline{a} aabbaa)$

$\vdash_M (q_1, \Delta \underline{a} aabbaa)$

$\vdash_M (q_2, \Delta \underline{a} aabbaa)$

$\vdash_M (q_1, \Delta \underline{a} aabbaa)$

$\vdash_M (q_2, \Delta \underline{a} aabbaa)$

$\vdash_M (q_3, \Delta \underline{a} aabbaa)$

$\vdash_M (q_4, \Delta \underline{a} aabbaa)$

$\vdash_M (q_4, \Delta \underline{a} aabbaa)$

$\vdash_M (q_4, \Delta \underline{a} aabbaa)$

$\vdash_M (q_2, \Delta \underline{a} aabbaa)$

$\vdash_M (q_1, \Delta \underline{a} aabbaa)$

$\vdash_M (q_2, \Delta \underline{a} aabbaa)$

$\vdash_M (h, \Delta \underline{a} aabbaa)$

4.1.3 b) Özellikle karmaşık olmasa da bu Turing makinesinin
sistemleri, belirli bir nedensellik ile ilgili olan ve
girişlerini istisnadan çok daha sezgisel bir şekilde
de tanımlanamaz. (Temel olarak, a veya ab tamsayı
sıraında aldığı geçişler)

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Bezza Haydar