

# CS101A-计算机导论-Assignment 2

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## Ex.1

(a). Tape: An infinite tape that is divided into infinite cells , each of which can contain any one of a finite set of symbols, as its

unlimited memory.

Read/Write head: Read and write symbols and move on the tape, its action is controlled by the control unit.

Control unit: Controls actions performed by the read/write head.

(b). Each computation step consists of reading the symbol in the current tape cell, writing a symbol into that cell, and moving the head one cell to the left or right.

(c). **3** halt(accept), halt(reject), never halting

## Ex.2

(a). False

(b). True

## Ex.3

(a). reject.  $10101011q_{reject}$

(b). reject.  $01010101q_{reject}$