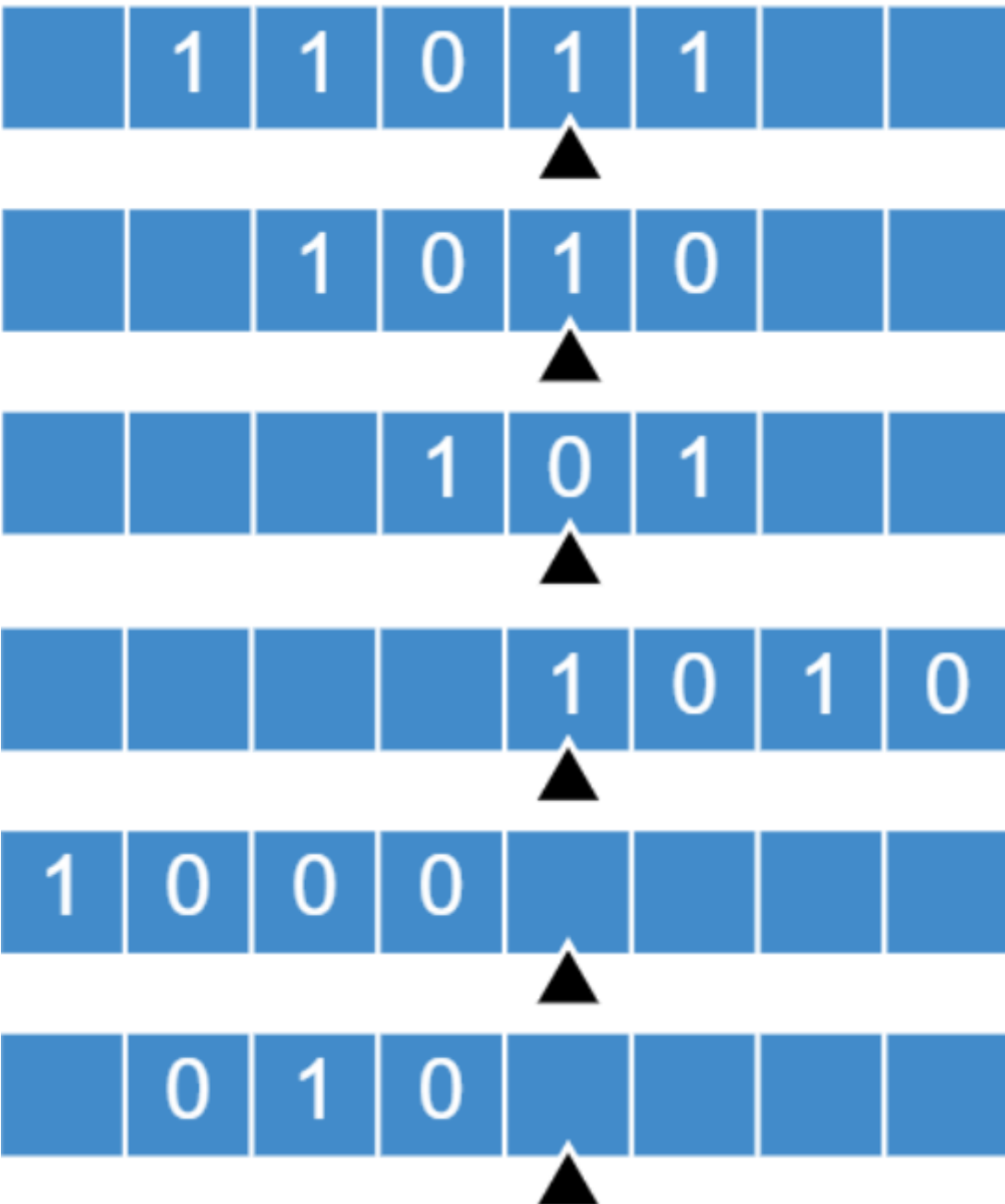


State: q5

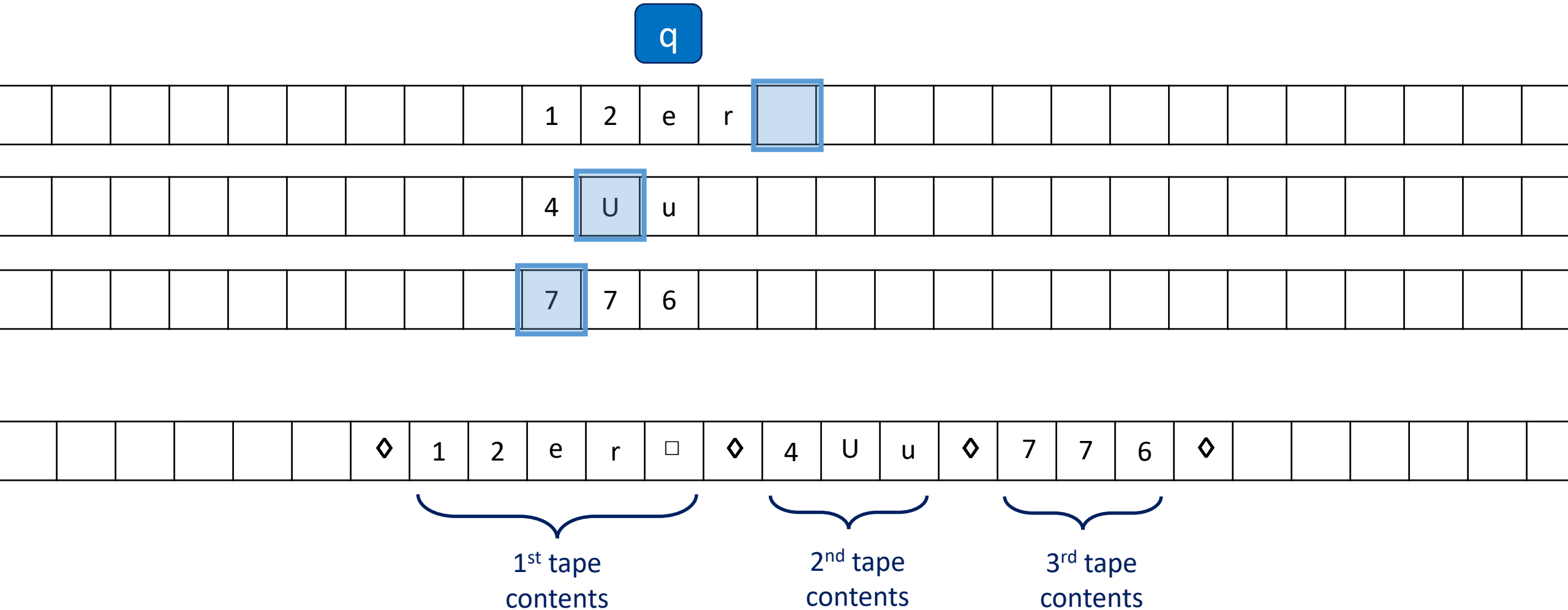


3a

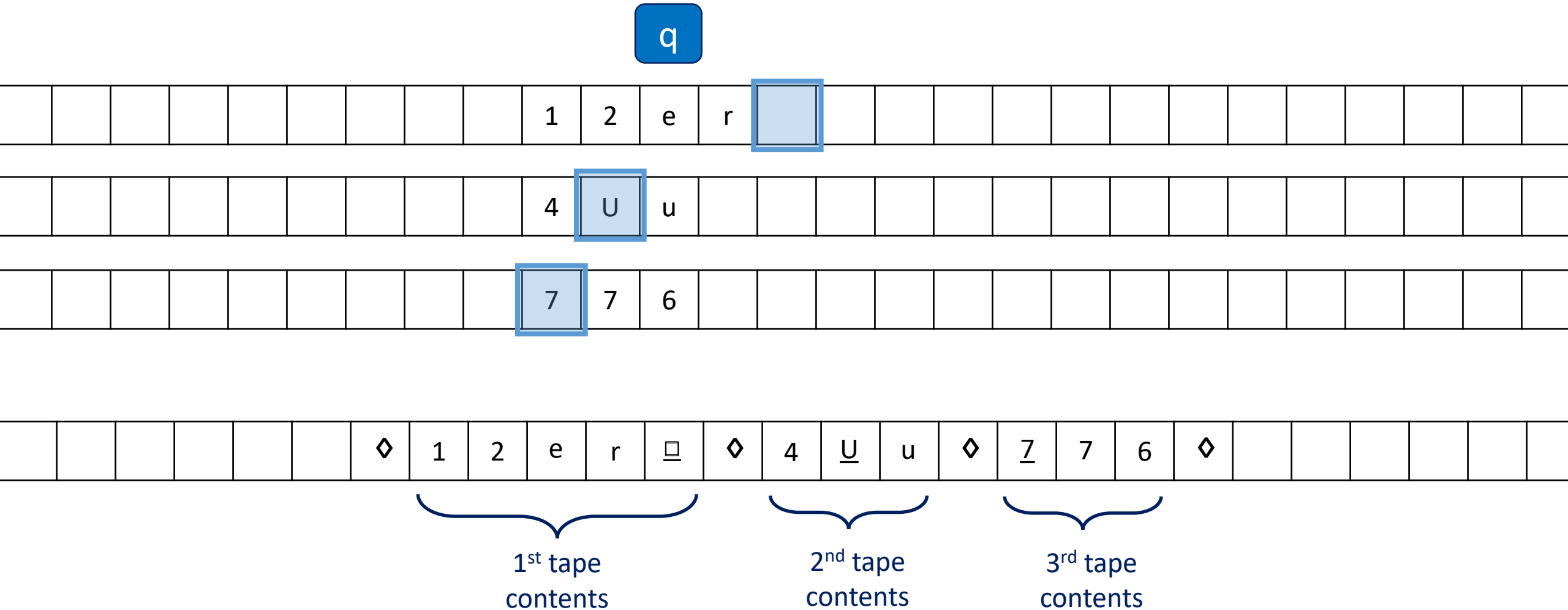
Multitape Turing Machines

Analiza Algoritmilor

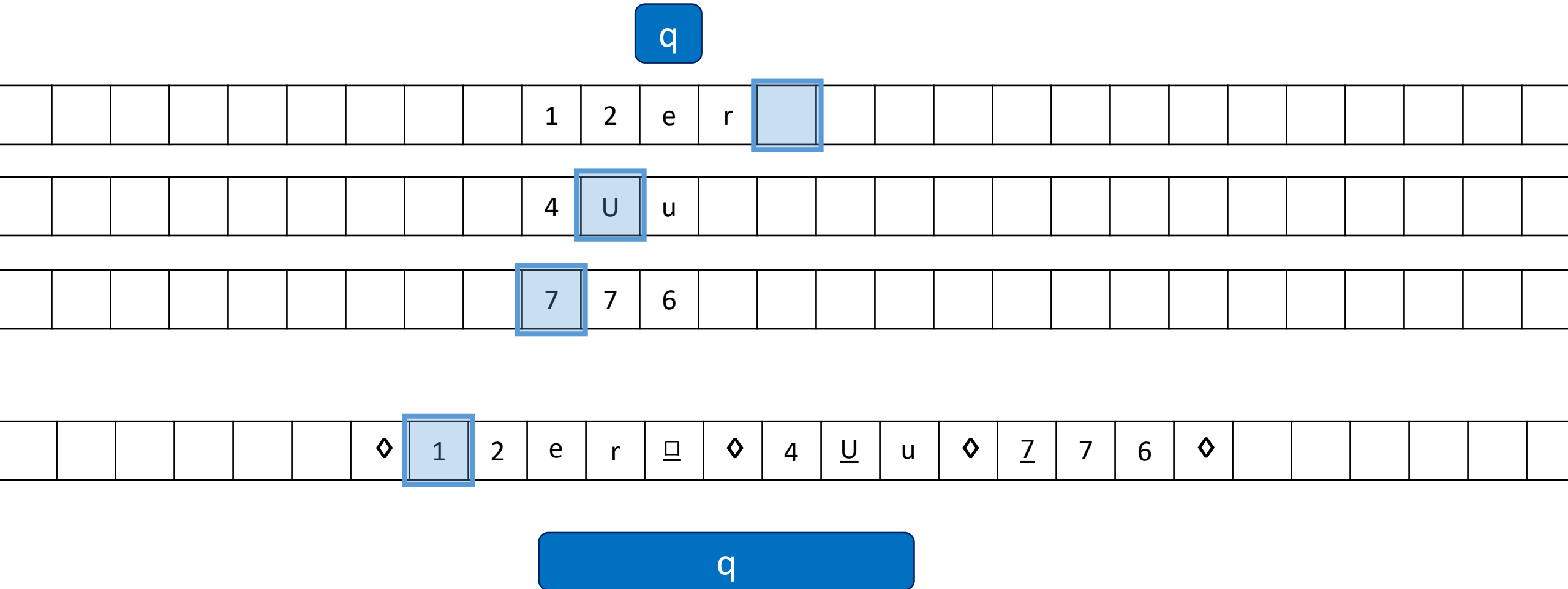
Single tape simulation



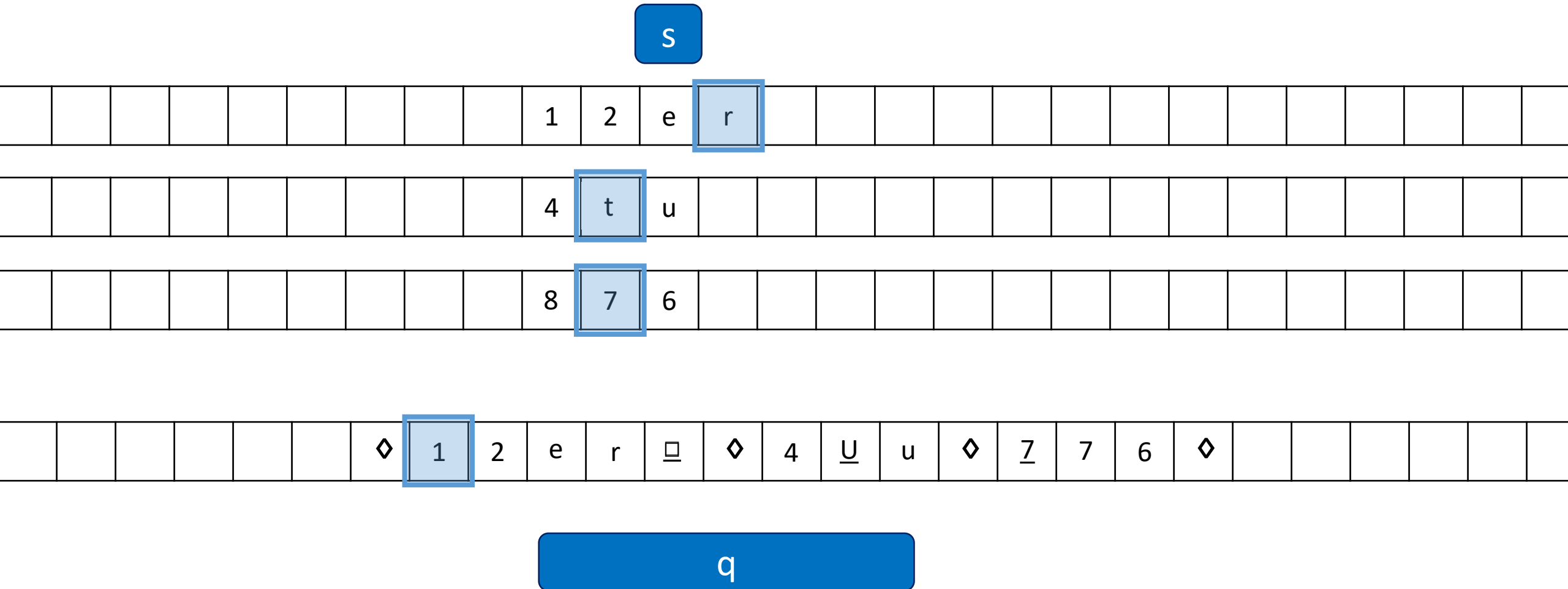
Single tape simulation



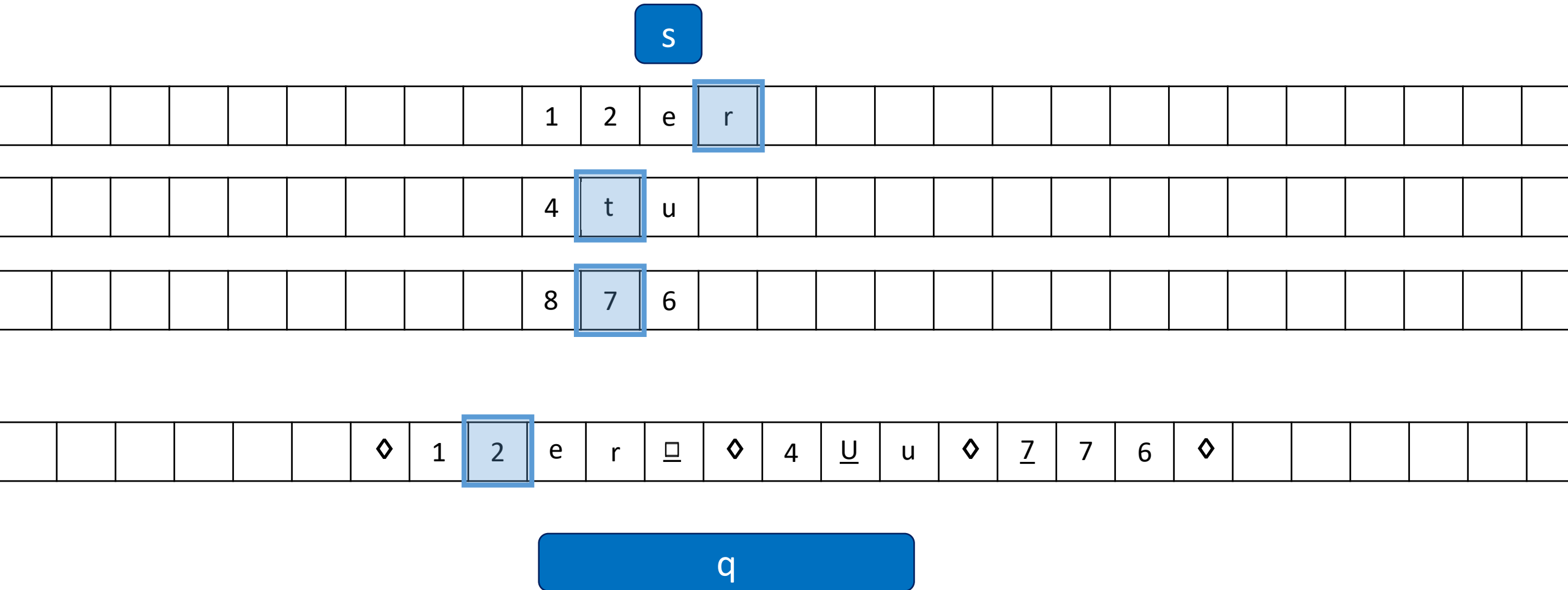
Single tape simulation



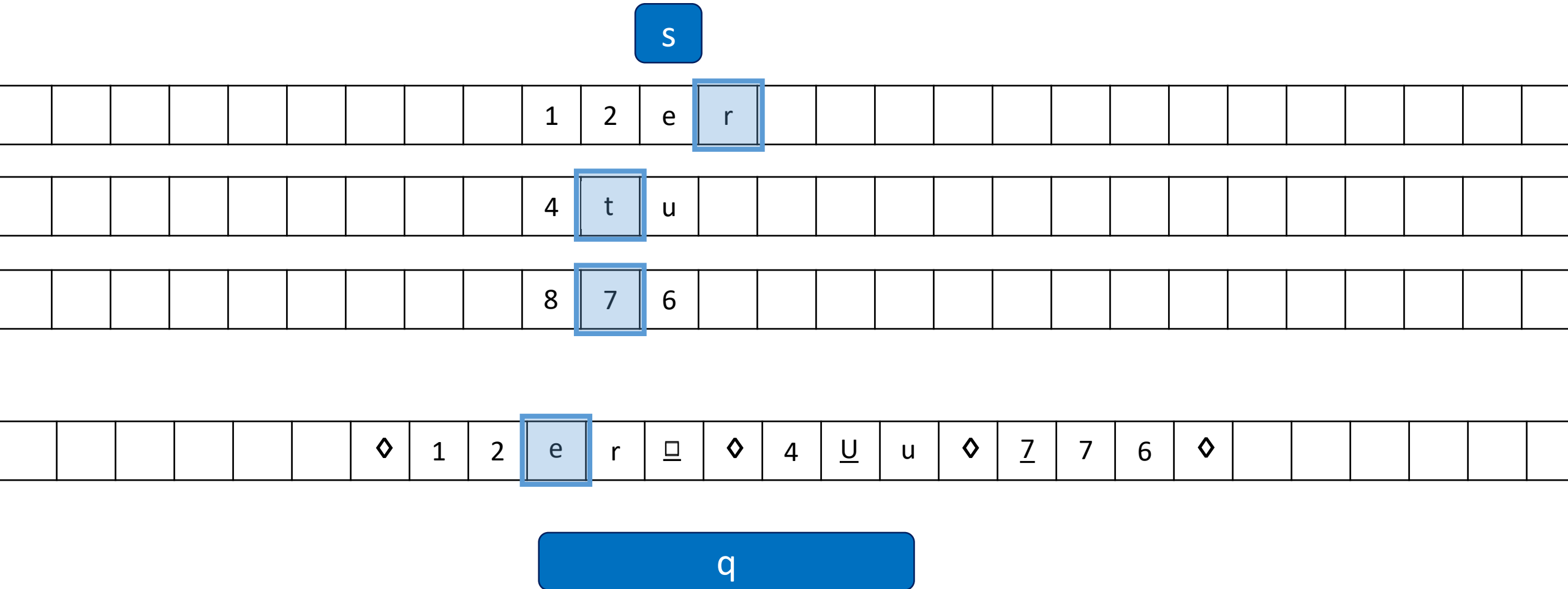
Single tape simulation



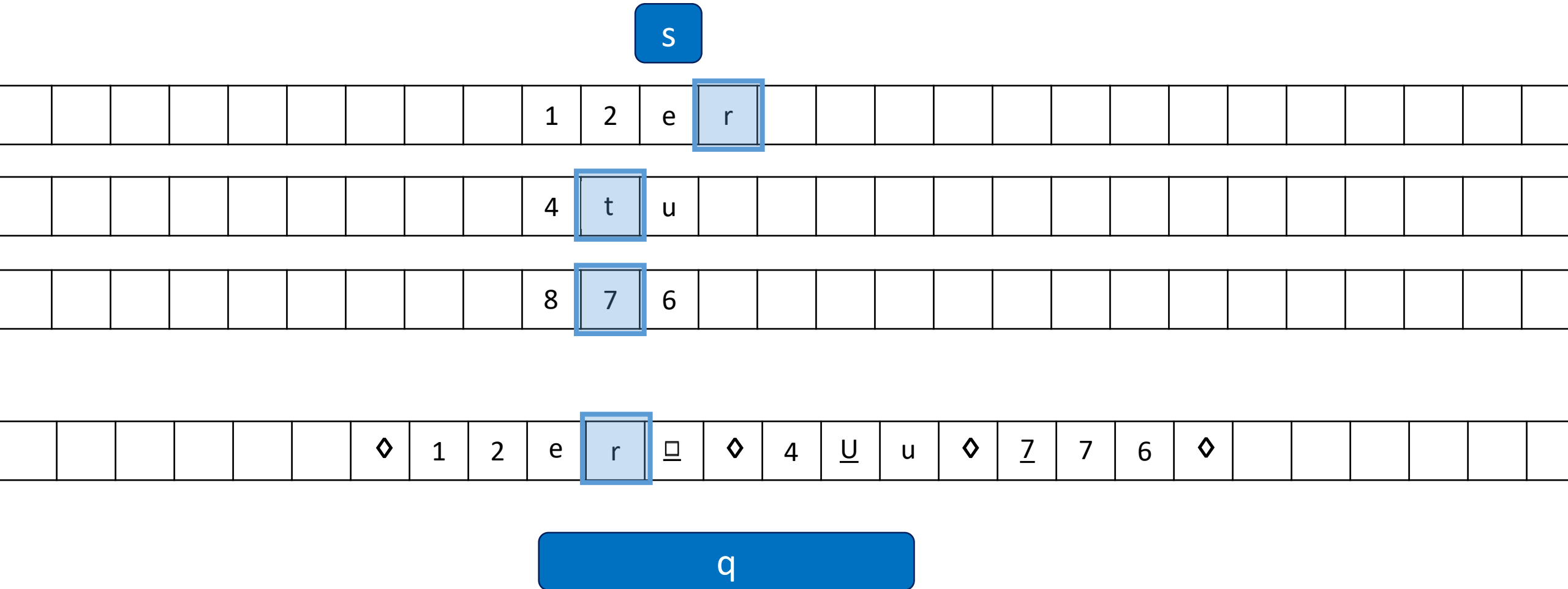
Single tape simulation



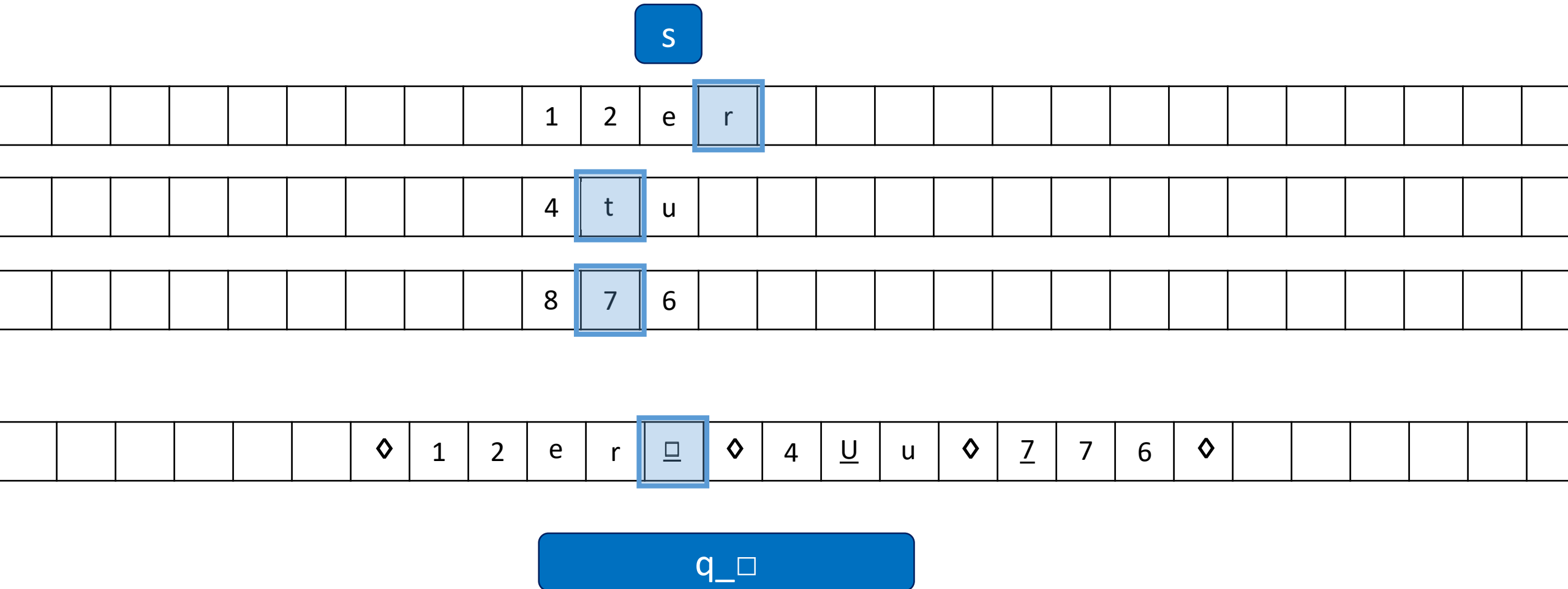
Single tape simulation



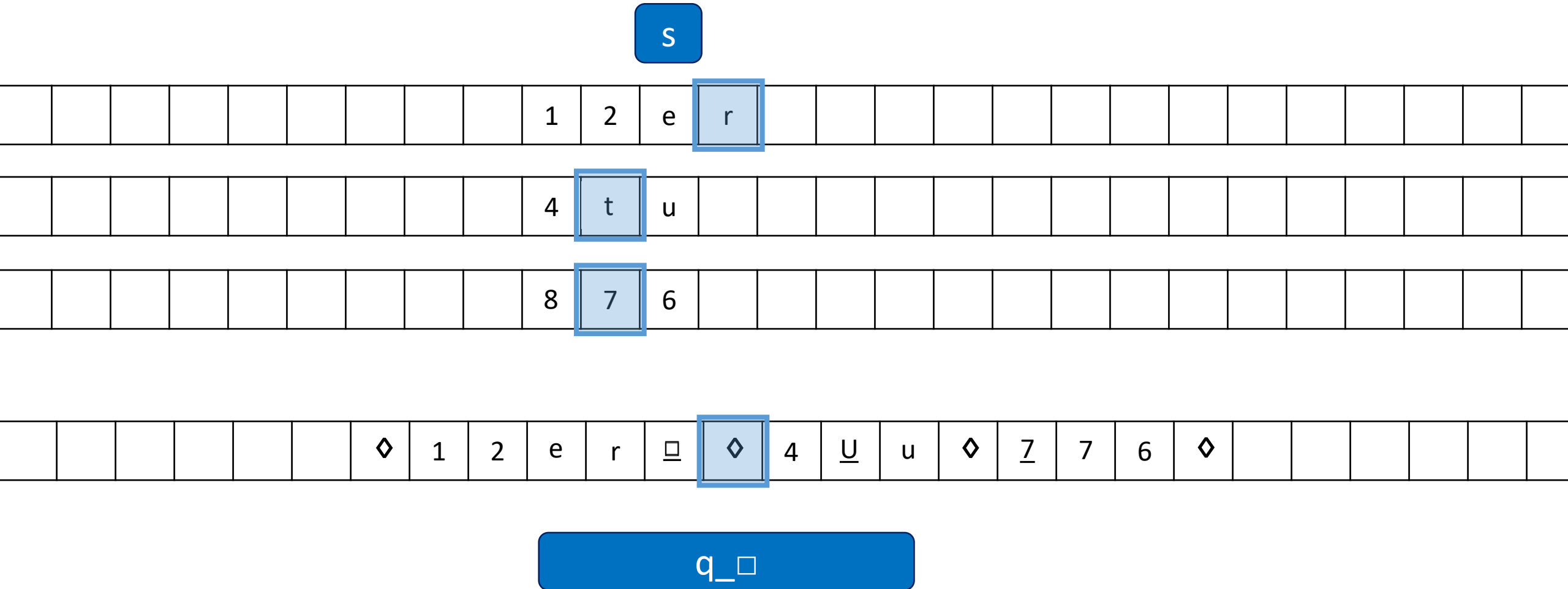
Single tape simulation



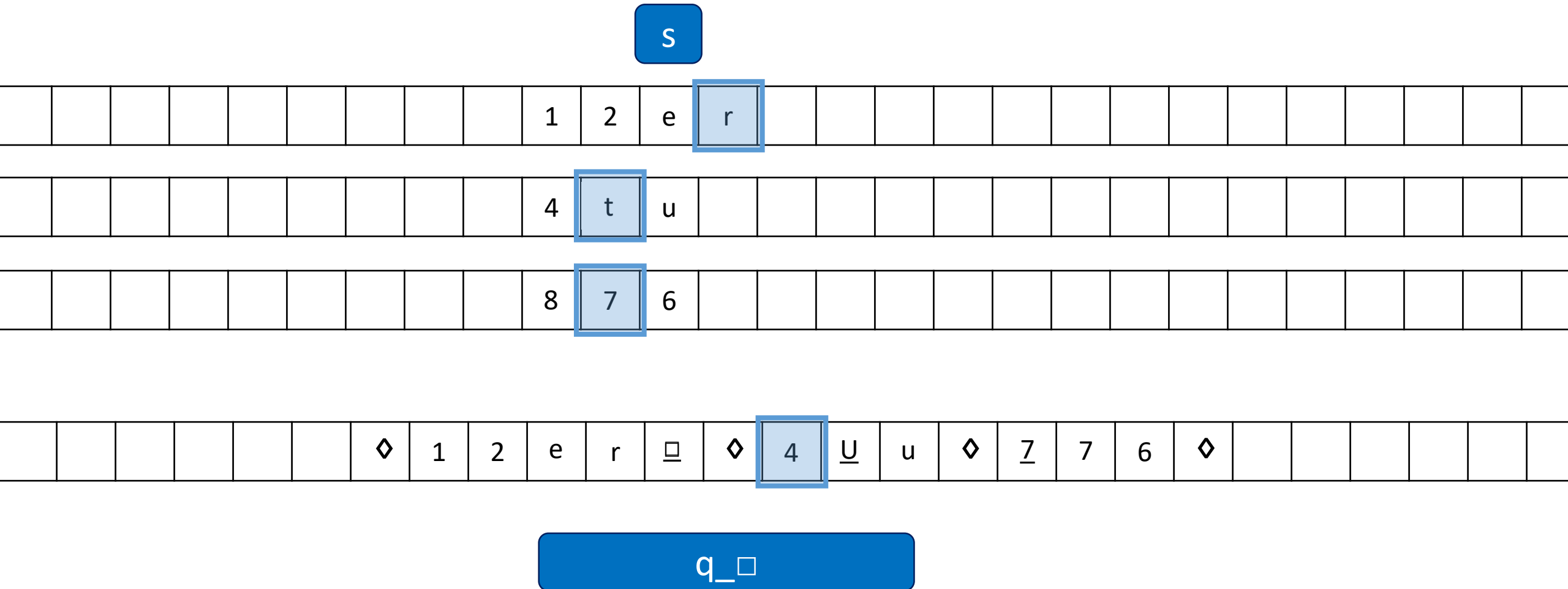
Single tape simulation



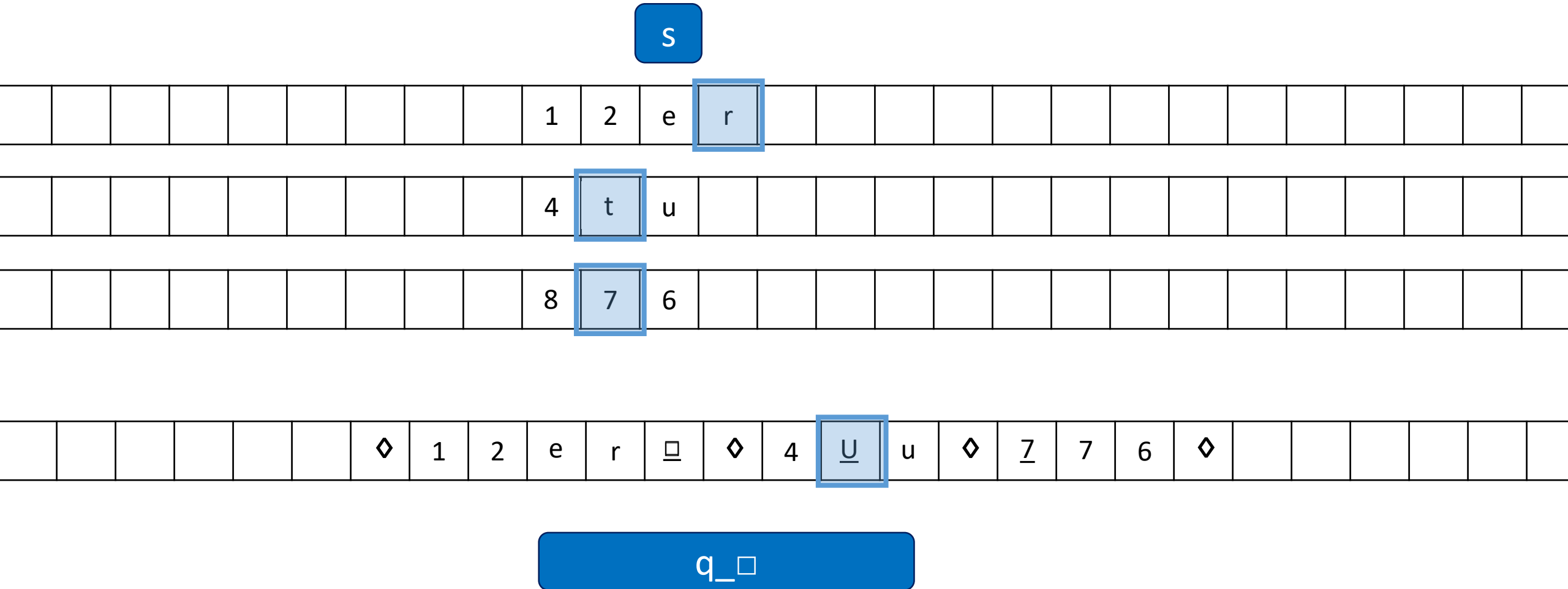
Single tape simulation



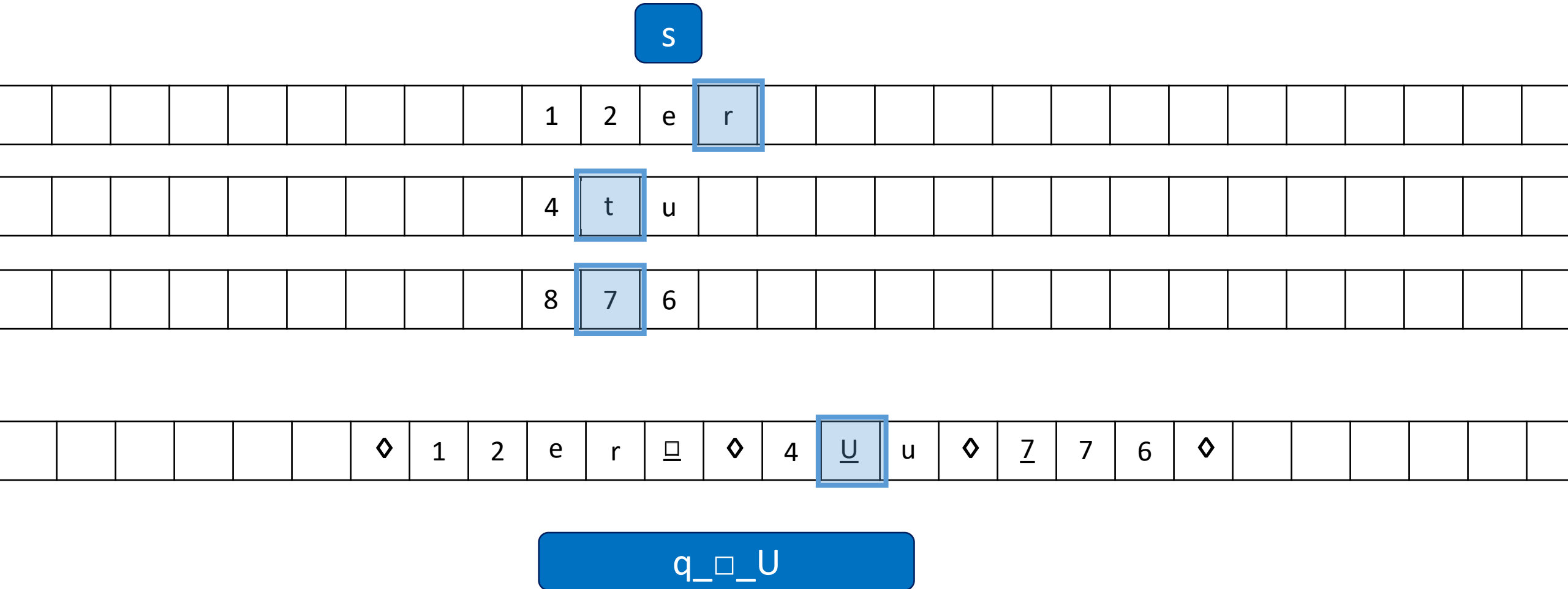
Single tape simulation



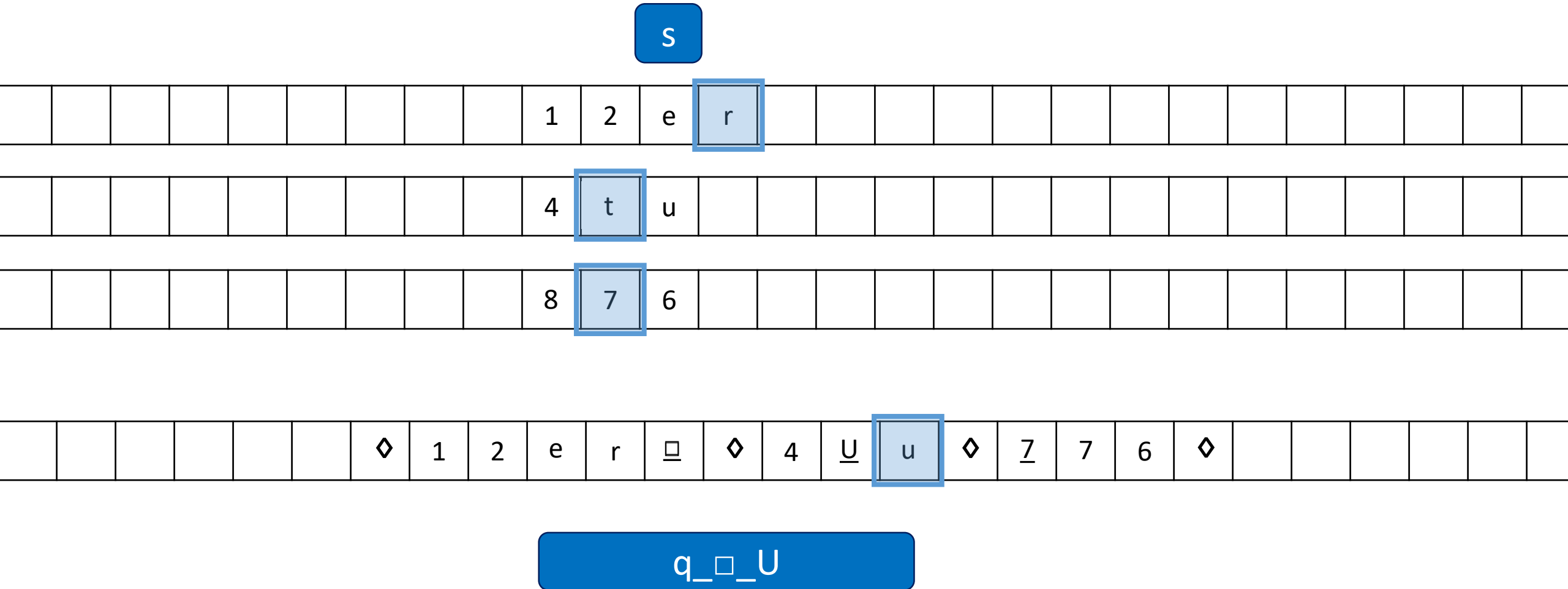
Single tape simulation



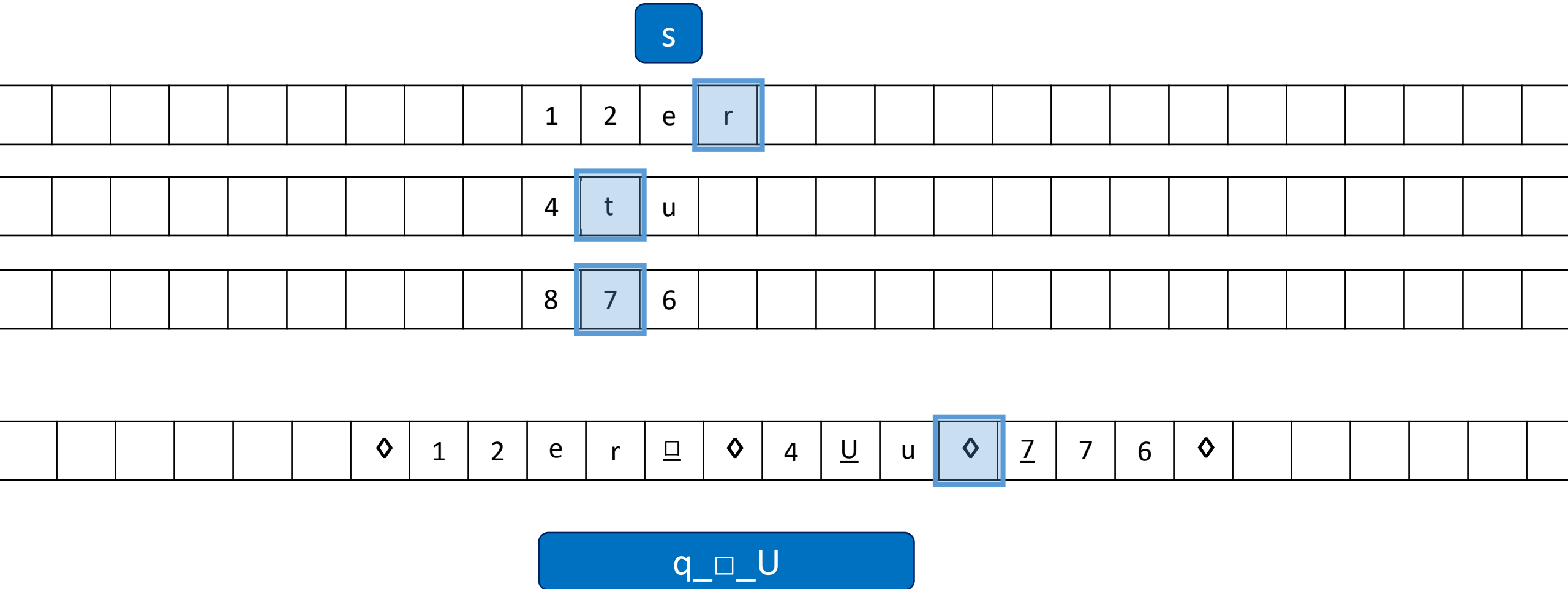
Single tape simulation



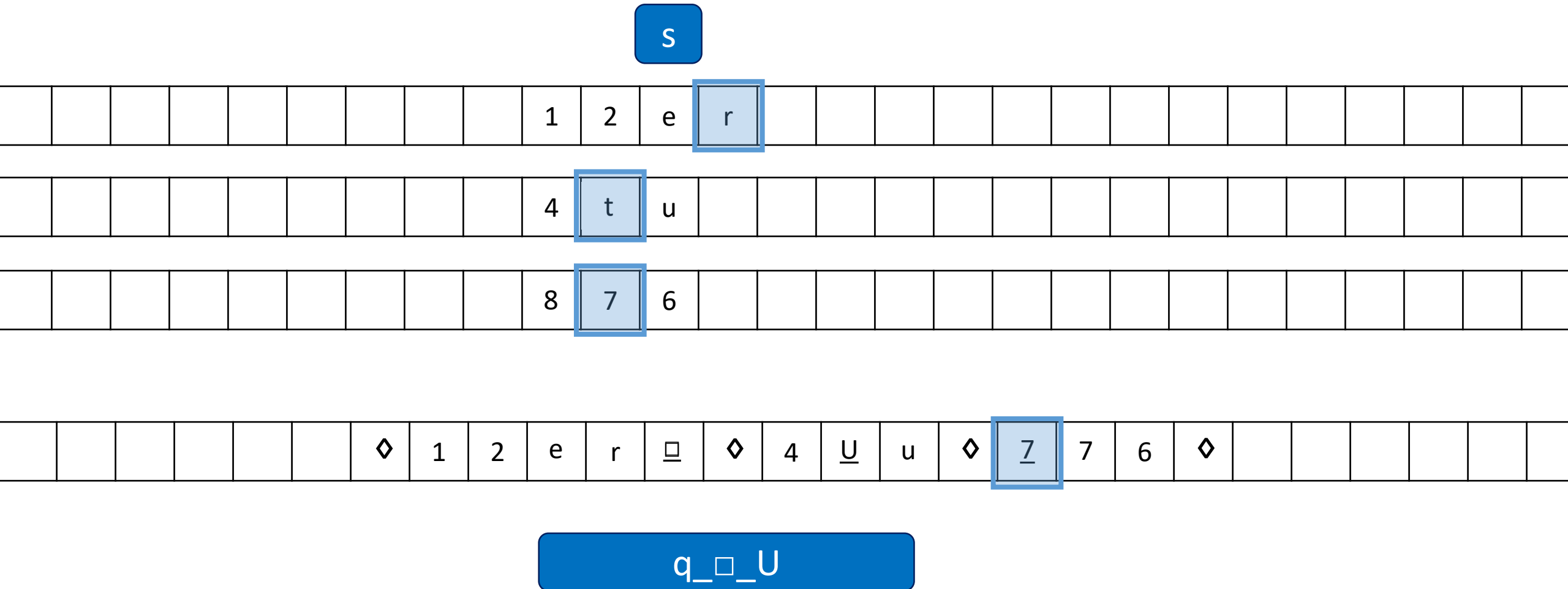
Single tape simulation



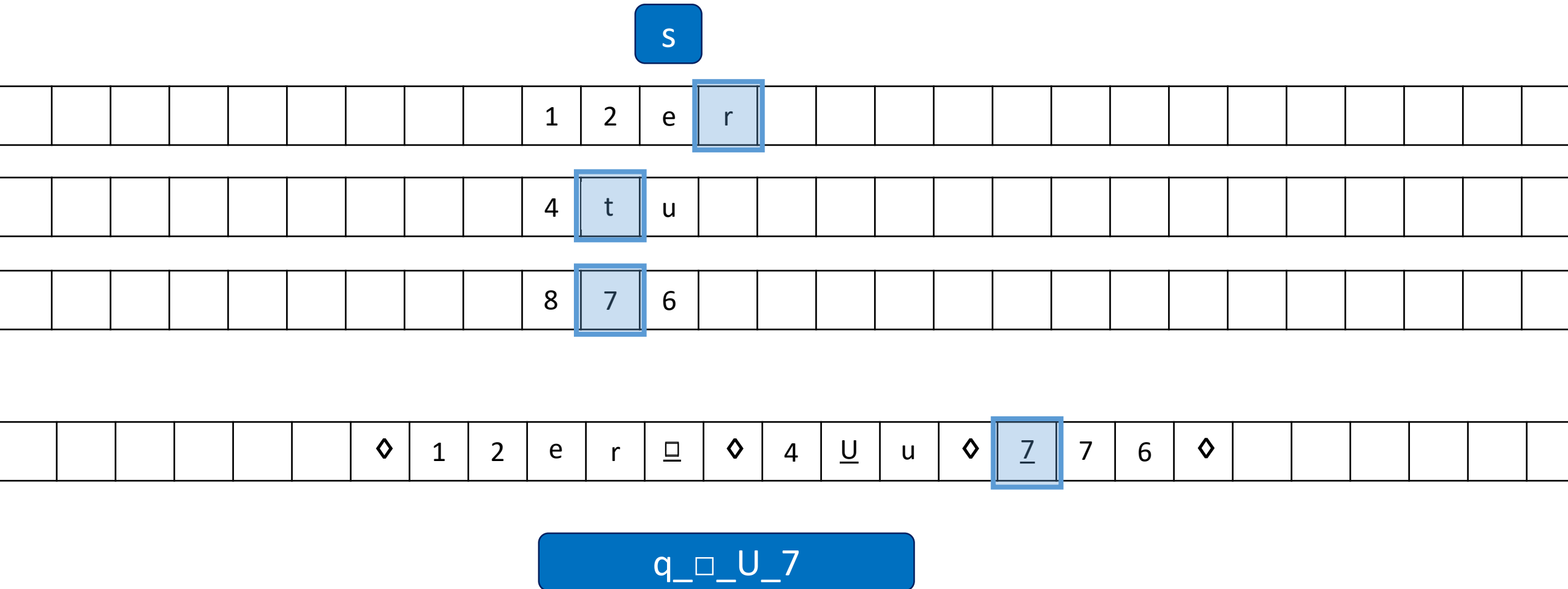
Single tape simulation



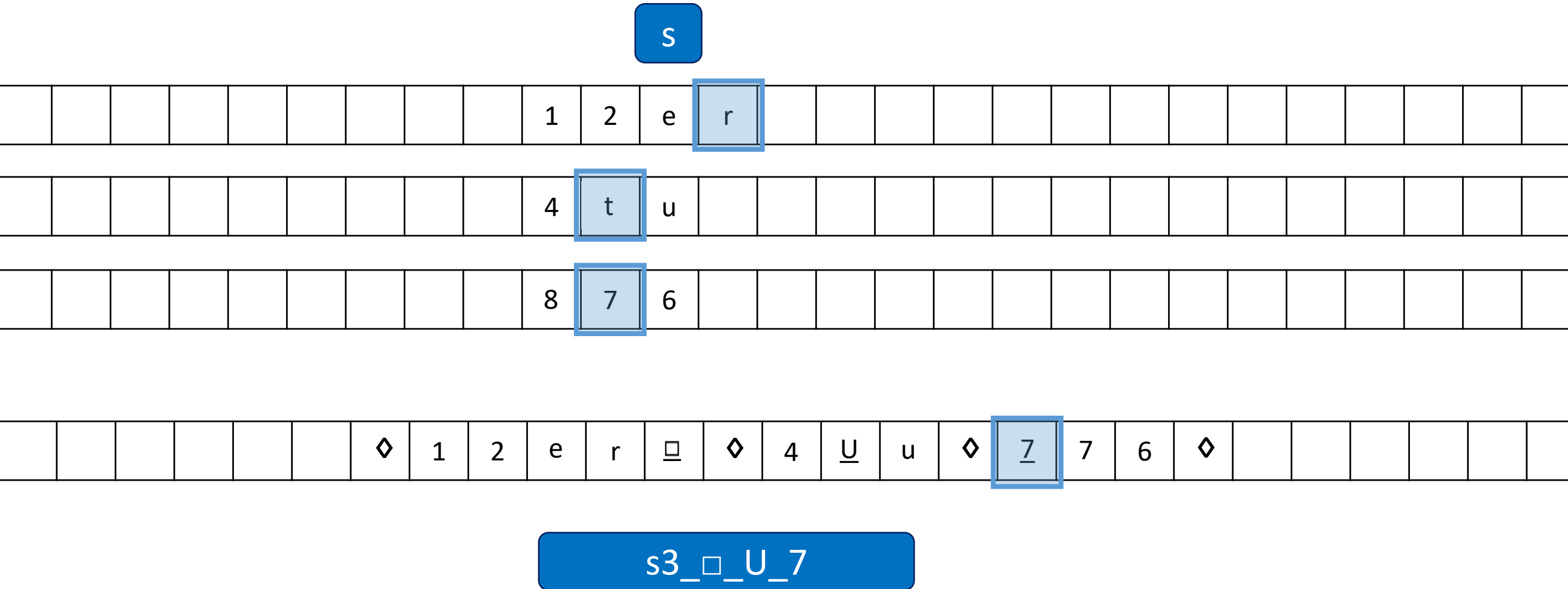
Single tape simulation



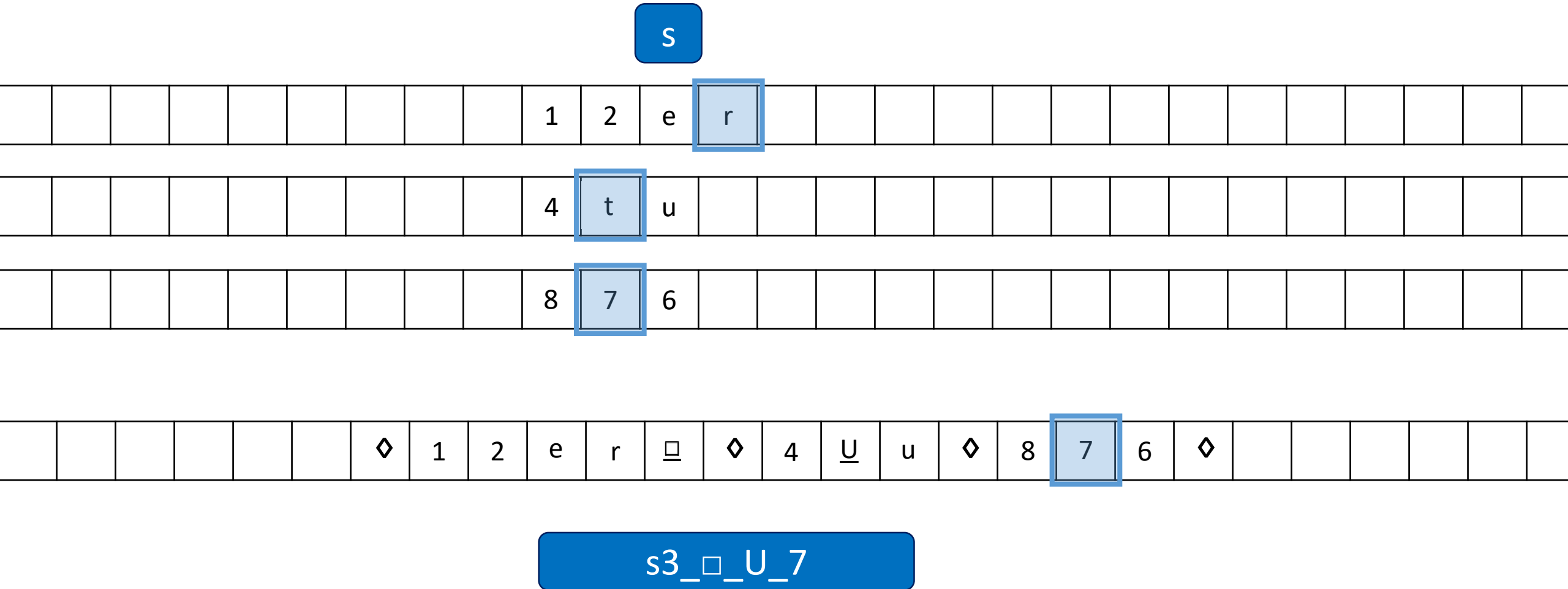
Single tape simulation



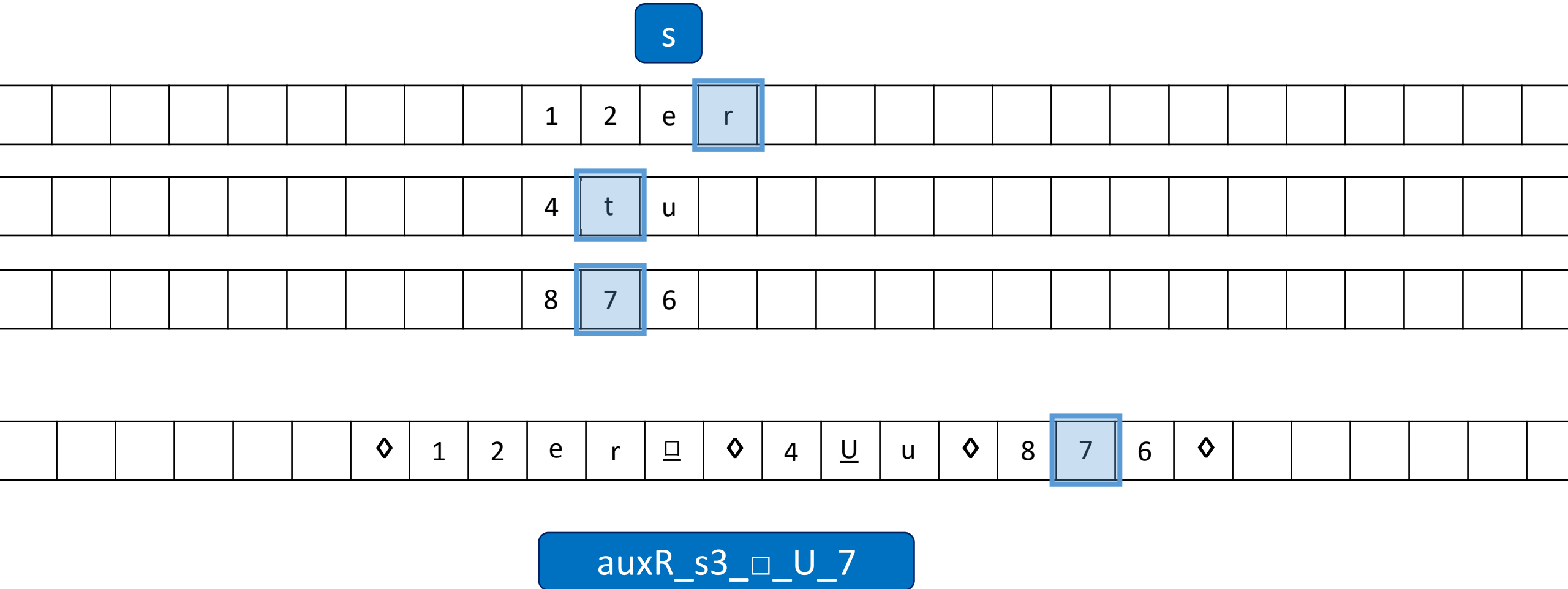
Single tape simulation



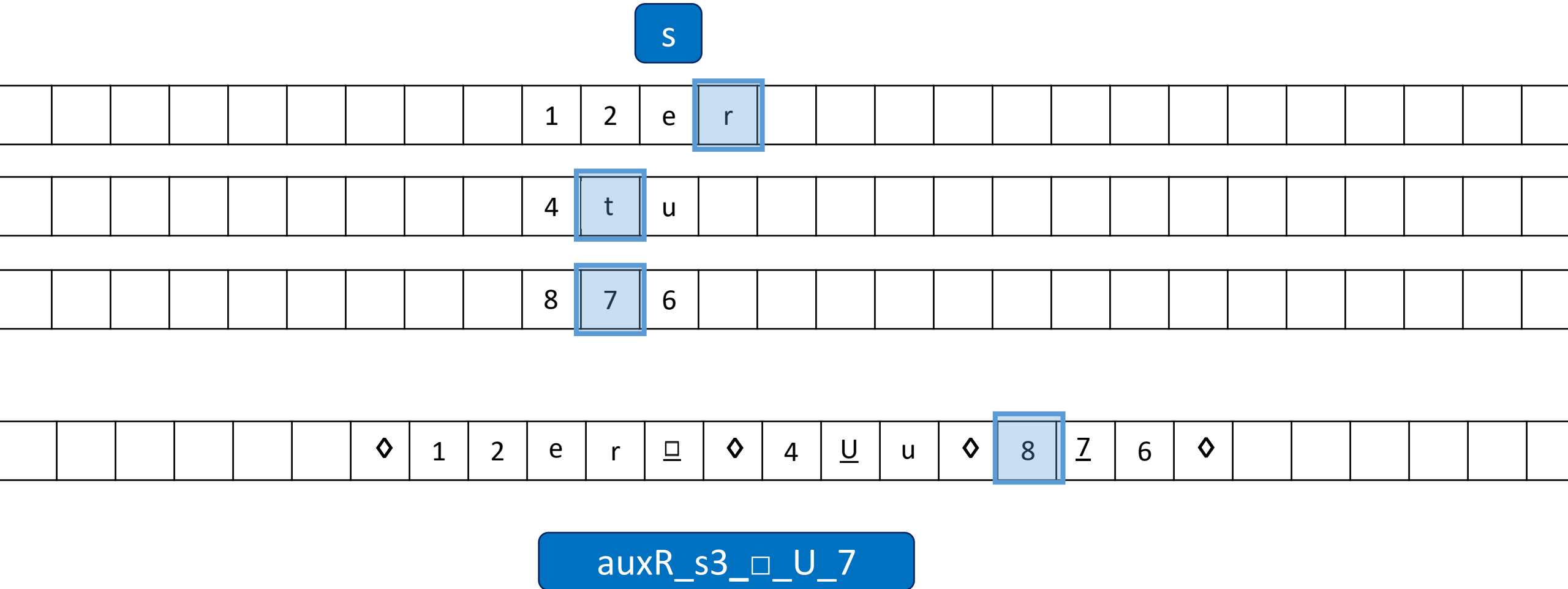
Single tape simulation



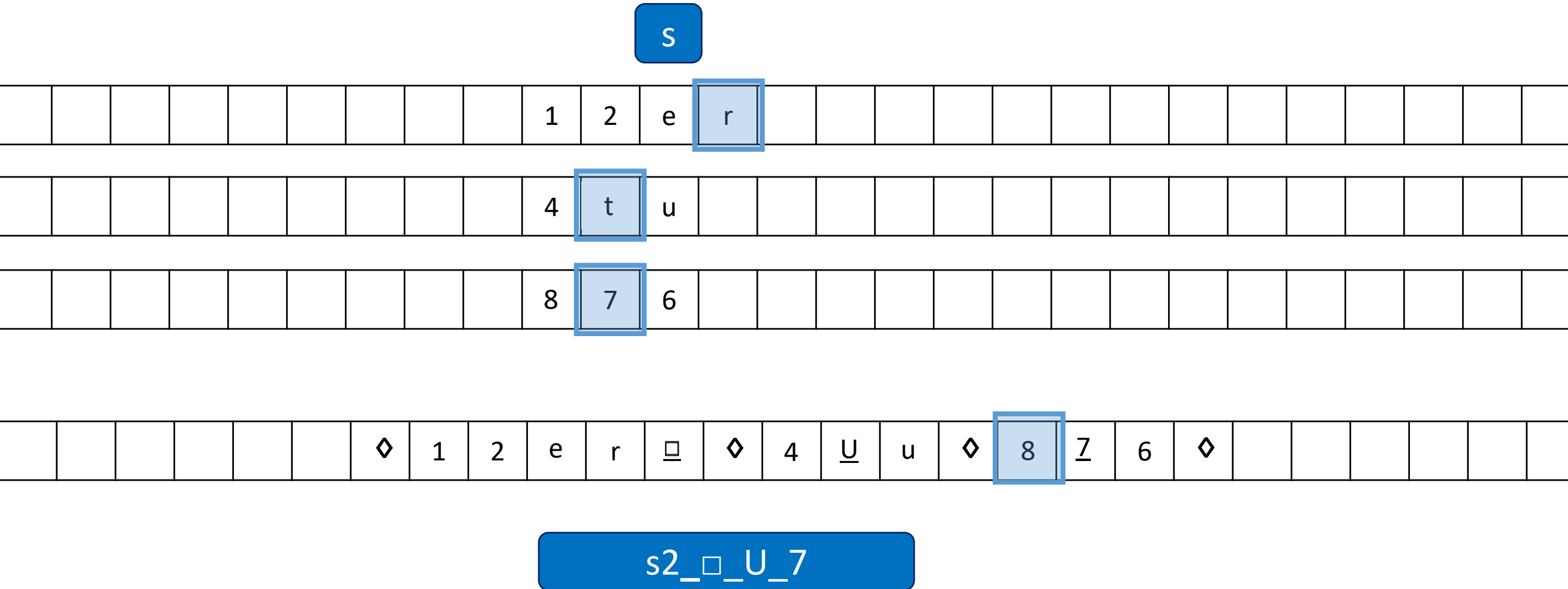
Single tape simulation



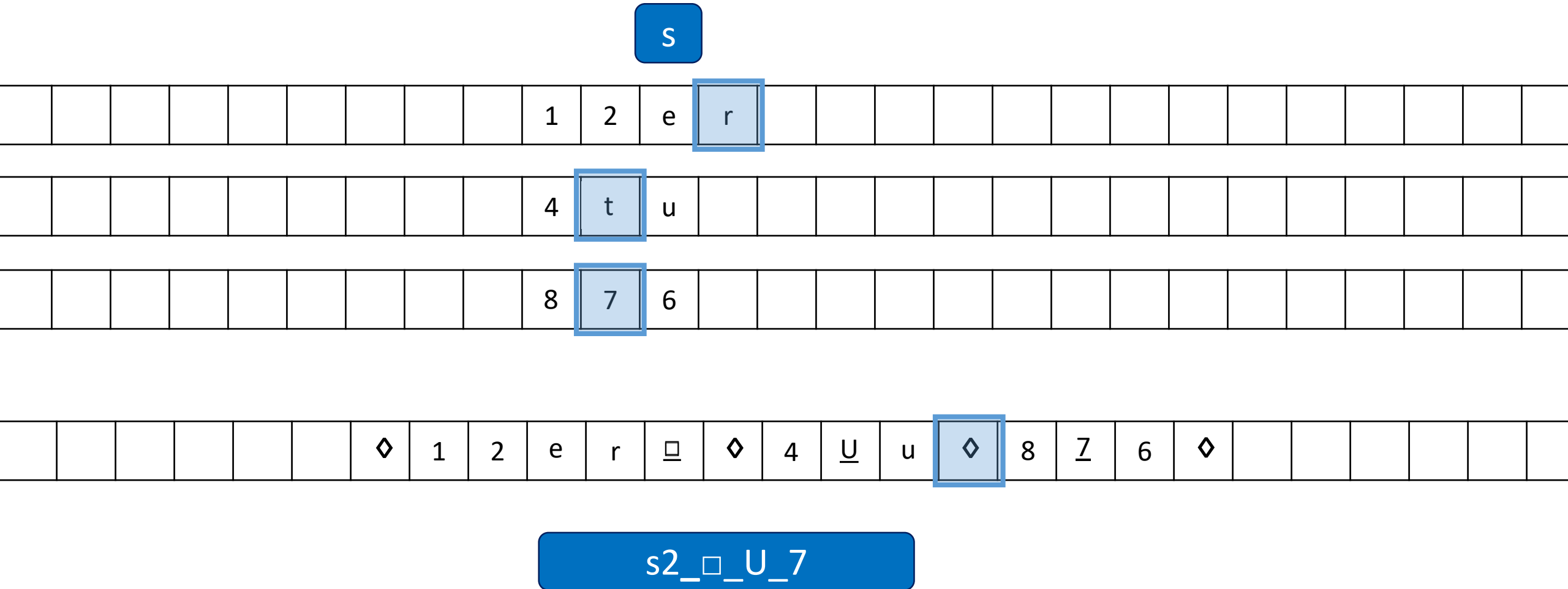
Single tape simulation



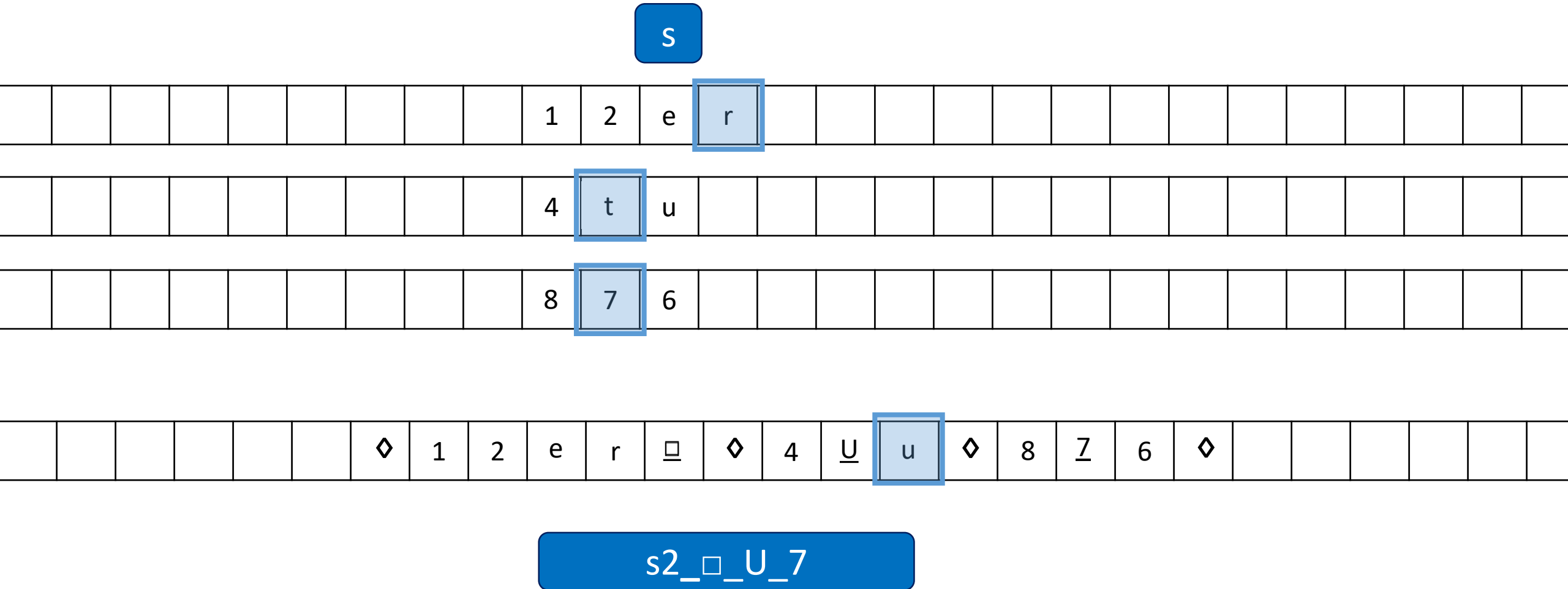
Single tape simulation



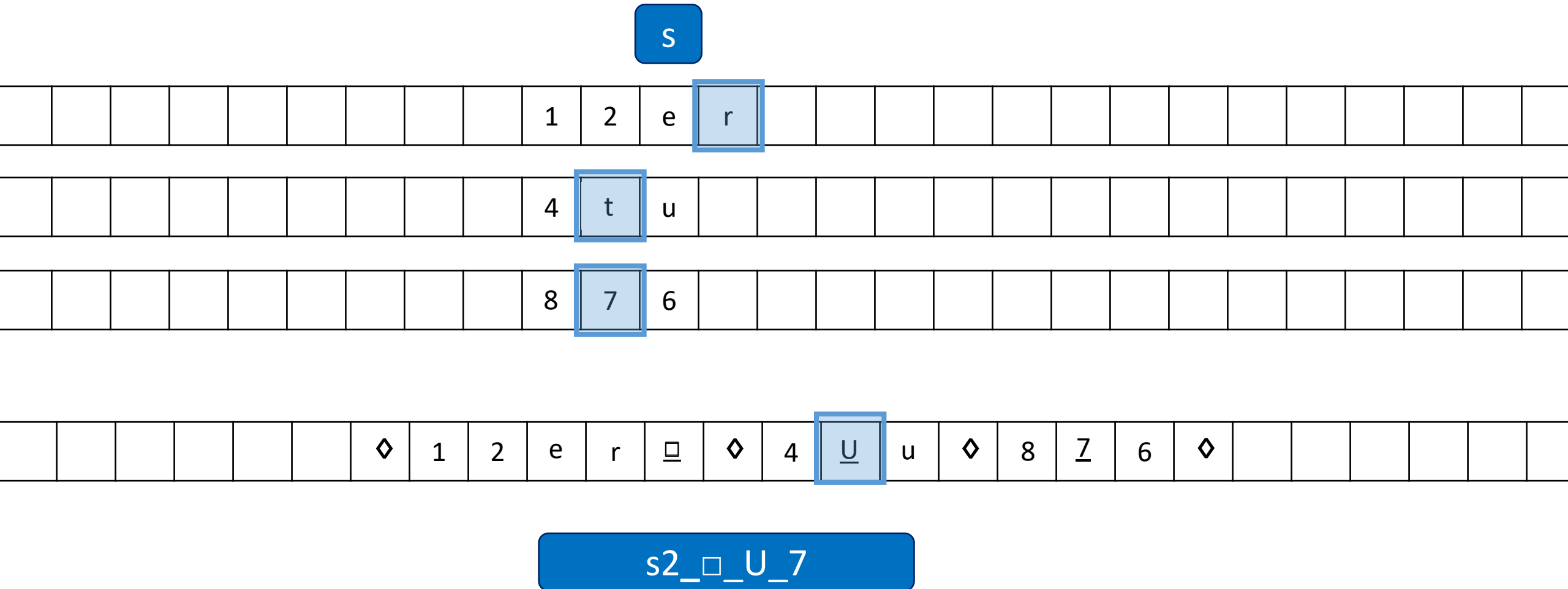
Single tape simulation



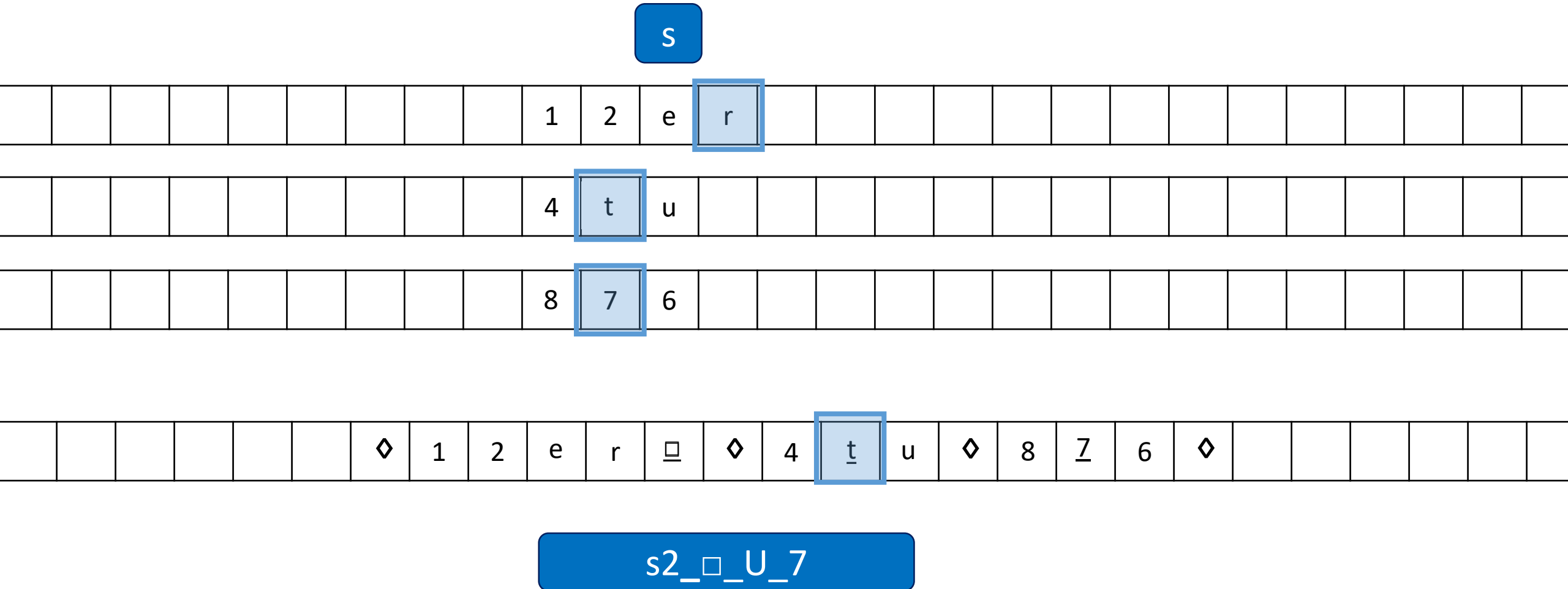
Single tape simulation



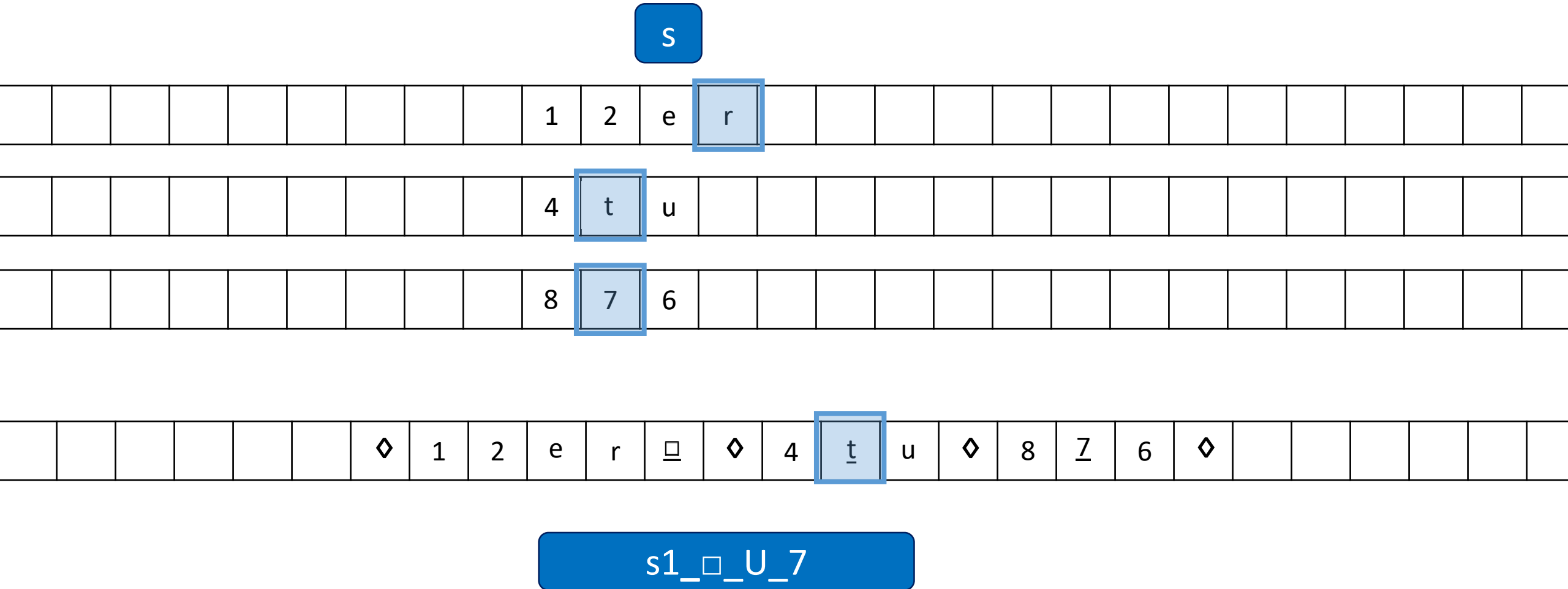
Single tape simulation



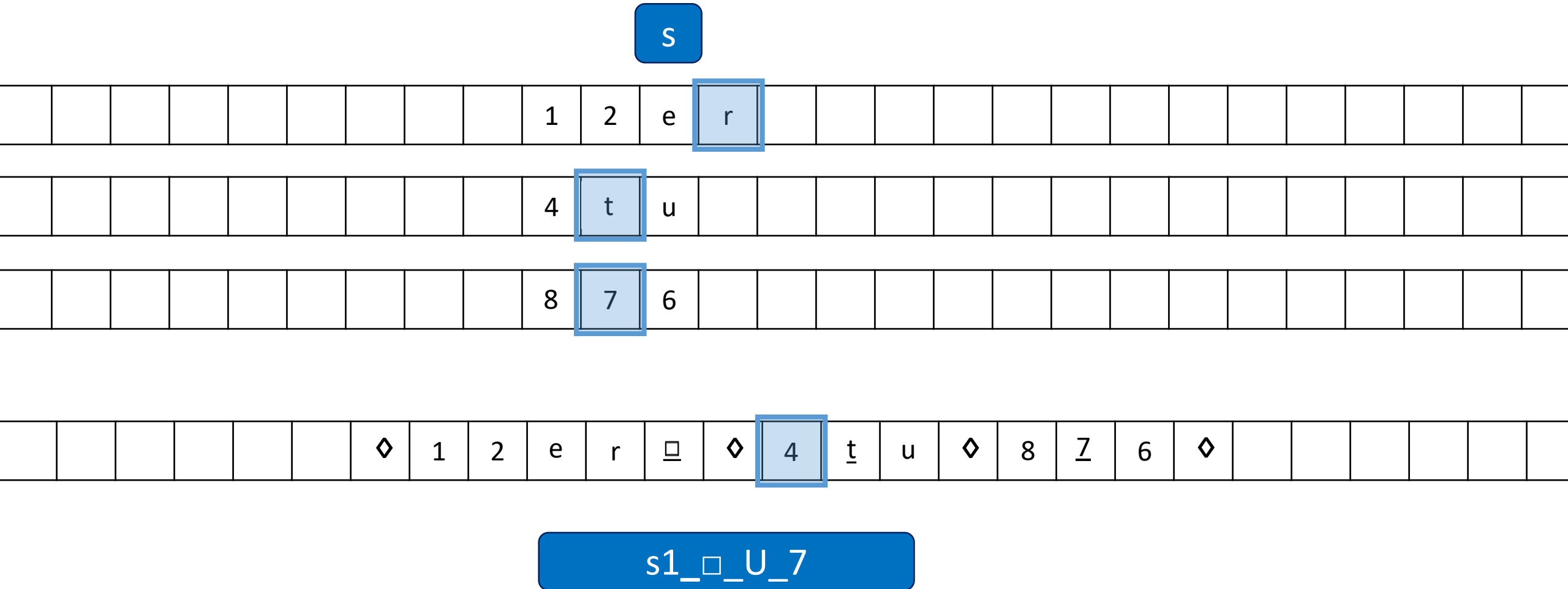
Single tape simulation



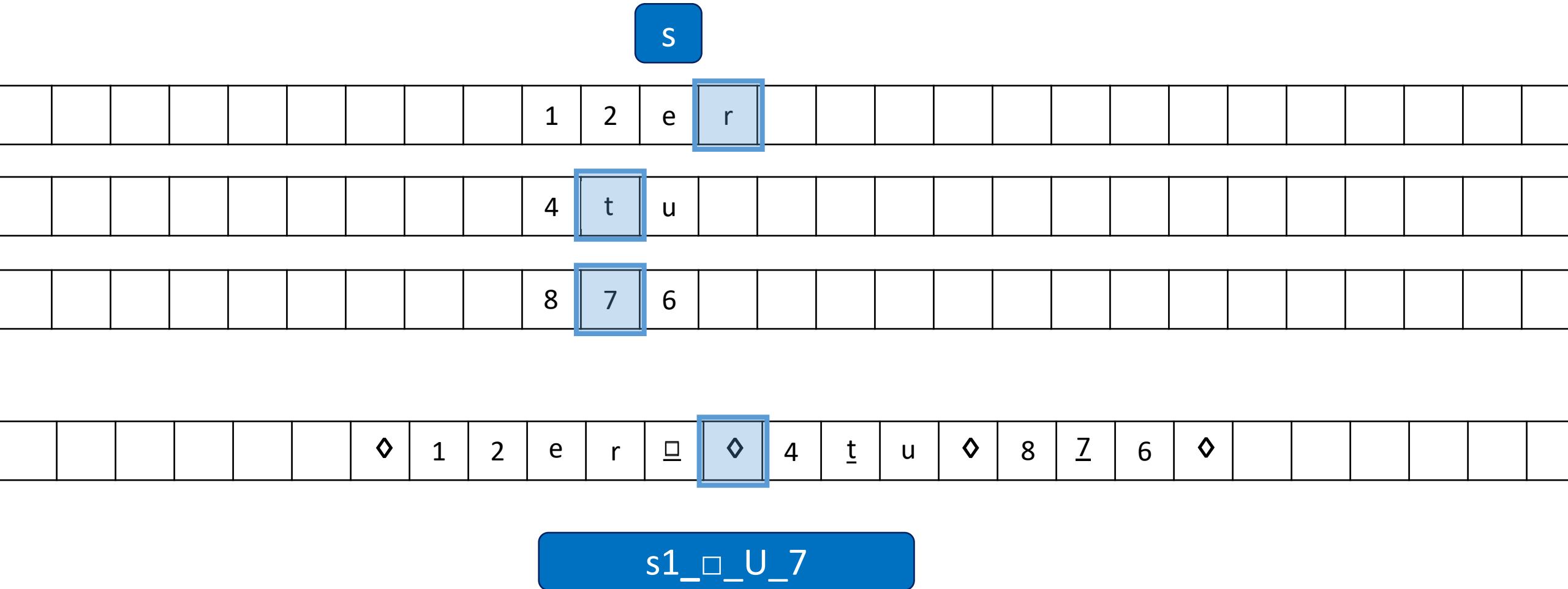
Single tape simulation



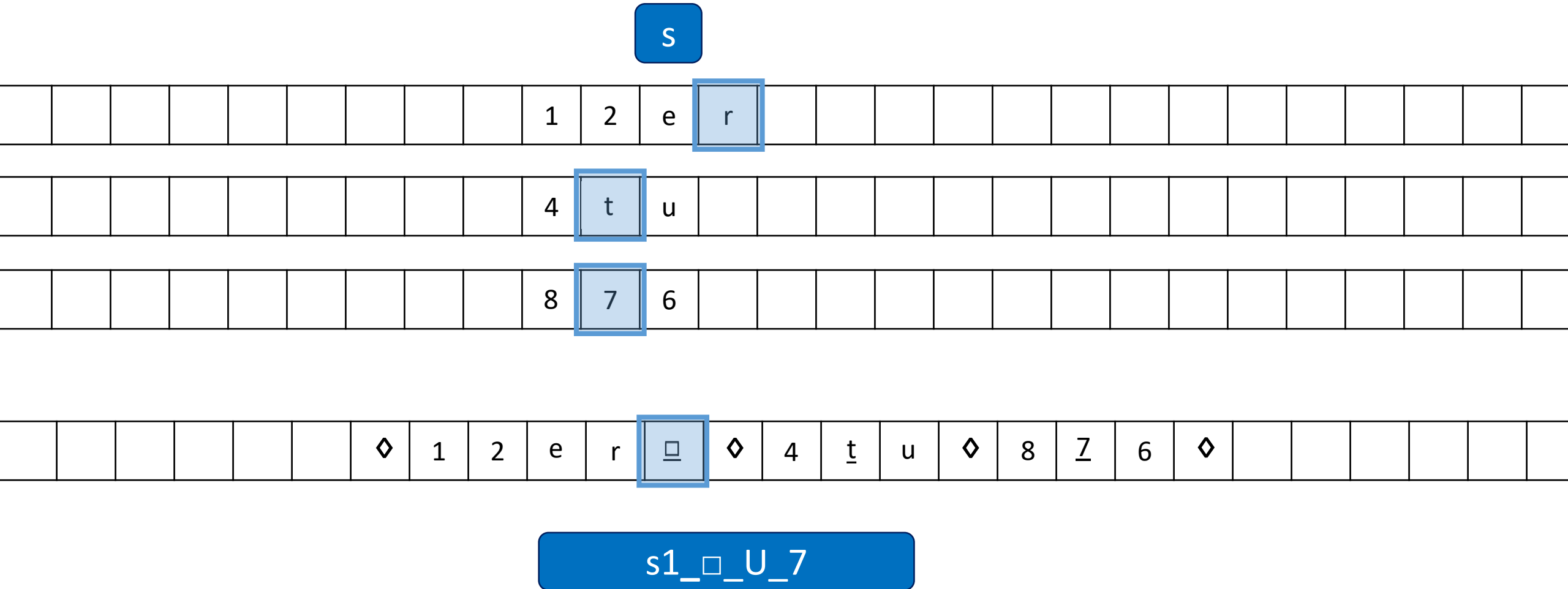
Single tape simulation



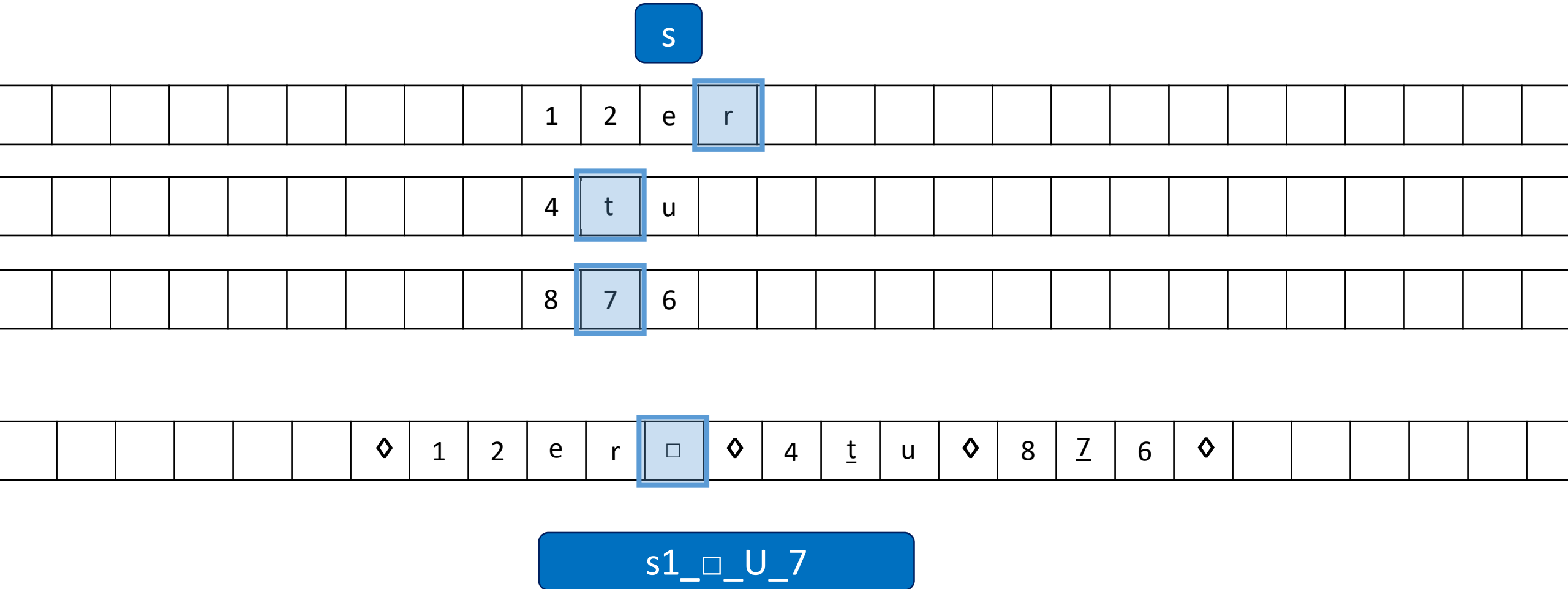
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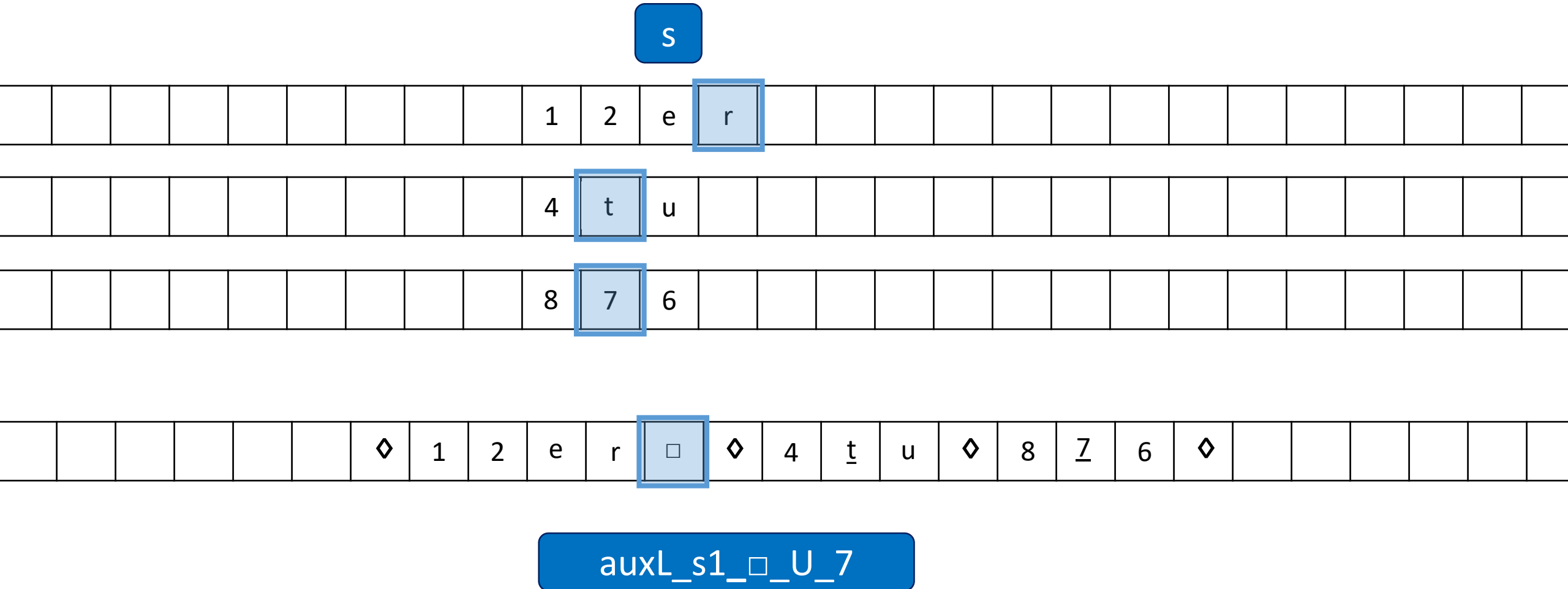
Single tape simulation



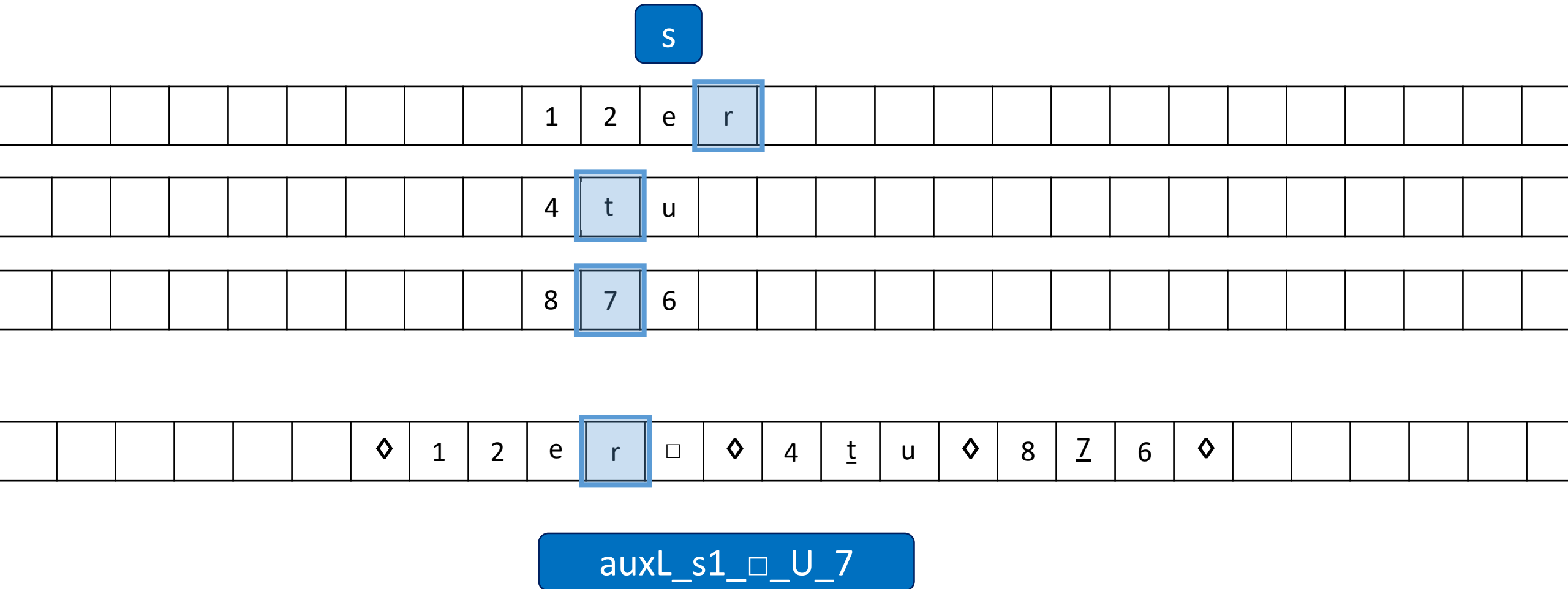
Single tape simulation



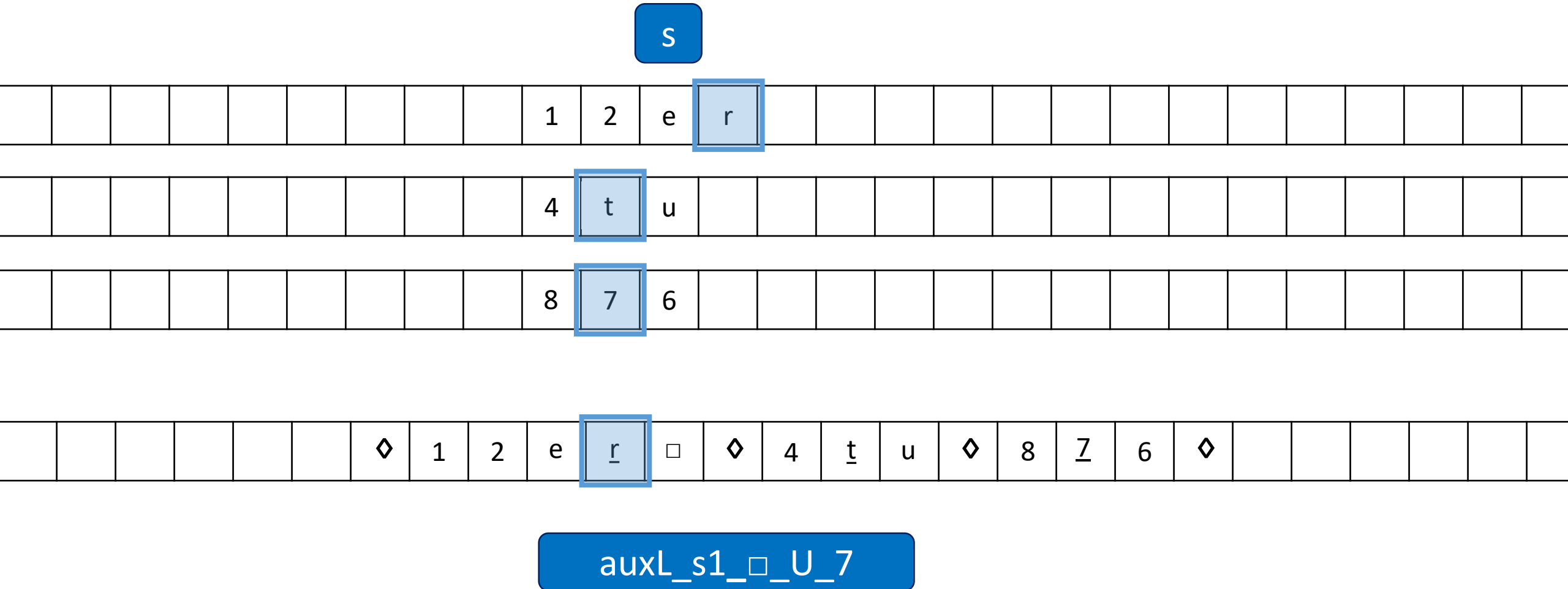
Single tape simulation



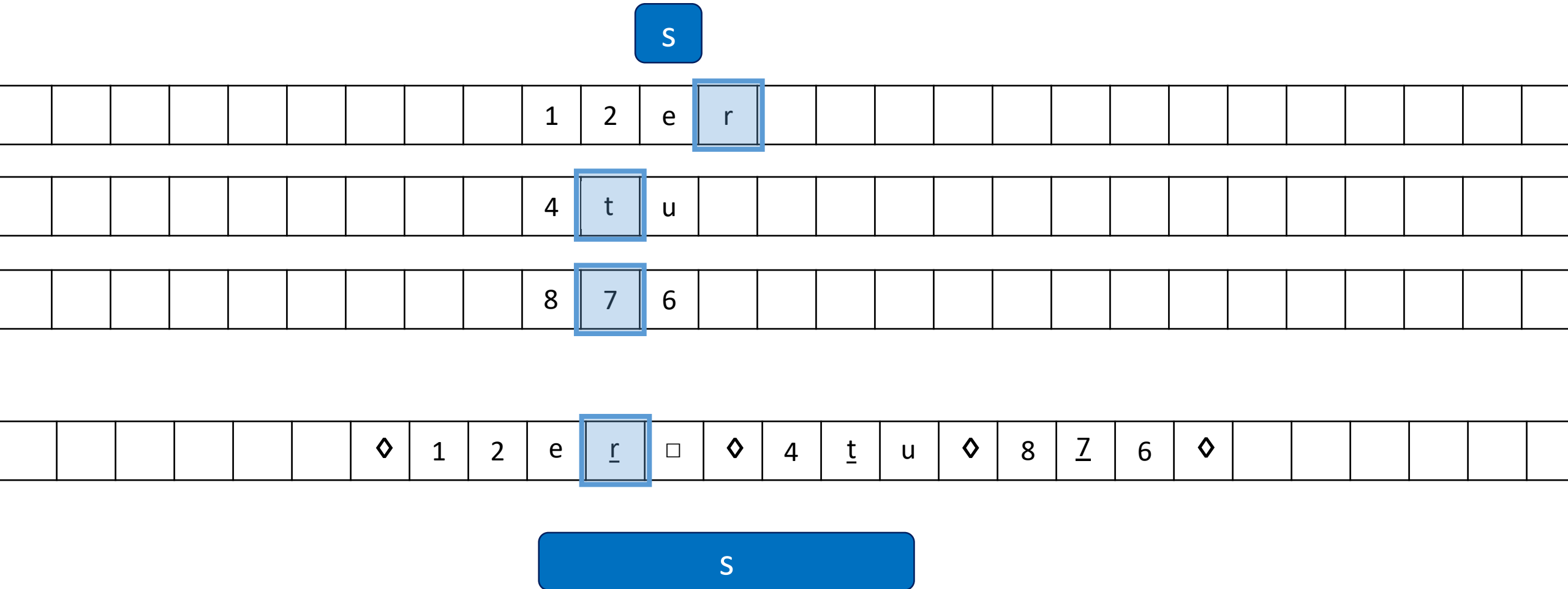
Single tape simulation



Single tape simulation



Single tape simulation



Why multitape machines?

- Supports the Church-Turing thesis
- Simpler definition for Universal Turing Machines (coming up next!)
- Easier to understand “linear speed-up” (justifies O notations)
- Necessary for defining space complexity

Moodle Quiz

Multitape Machines

