

10.3-1.

Draw a picture of the sequence $\langle 13, 4, 8, 19, 5, 11 \rangle$ stored as a doubly linked list using the multiple-array representation. Do the same for the single-array representation.

Answer.

Figure 1 shows the image of representing the sequence $\langle 13, 4, 8, 19, 5, 11 \rangle$ stored as a doubly linked list as multiple arrays.

Figure 2 shows how we represent the same sequence using single array A .

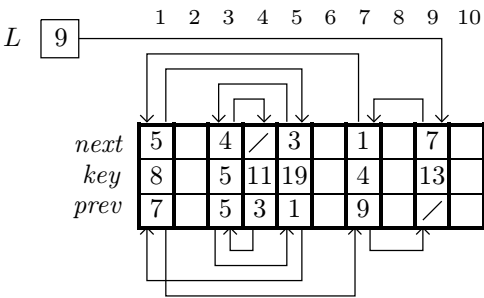


Figure 1. The linked list of sequence $\langle 13, 4, 8, 19, 5, 11 \rangle$ represented by the arrays *keys*, *next*, and *prev*.

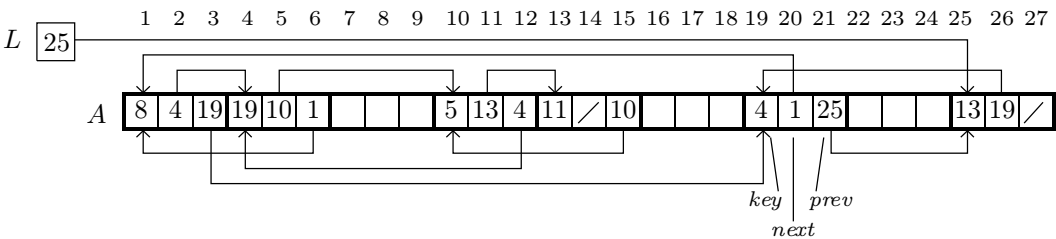



Figure 2. The linked list of sequence $\langle 13, 4, 8, 19, 5, 11 \rangle$ represented in a single array A .

*. Creative Commons  2014, Lawrence X. Amlord (颜世敏, aka 颜序).
Email address: informlarry@gmail.com