

30/09/20

Write - Up

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Skip List:-

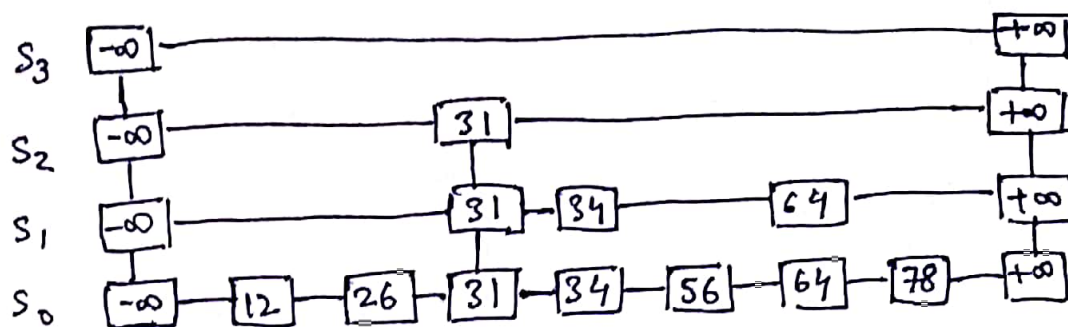


Fig (a)

(a) Insertion of value 23:-

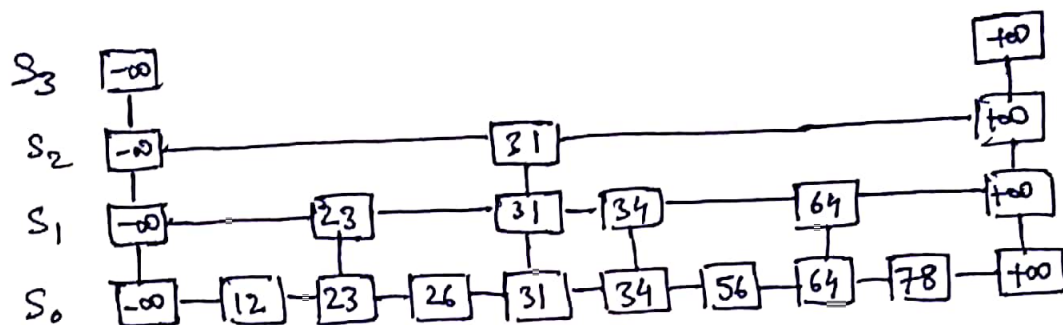


Fig (b)

→ 23 is inserted b/w 12 & 26 and thus we change 12→next at  $S_0$  to 23 and  $-\infty$ →next at  $S_1$  to 23 and 23→next point to 26 at  $S_0$  and 31 at  $S_1$  respectively.

(b) Deletion of value 31:-

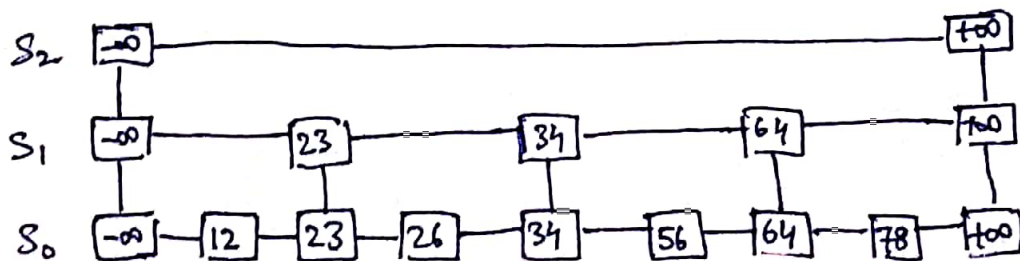


Fig (c)

→ we search for 31 in Fig (b) from top moving downwards & right acc. to algorithm, thus  $-\infty$ →next points to  $+\infty$  at  $S_2$ , 23→next points to 34 at  $S_1$  & 26→next points to 34 at  $S_0$ .

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