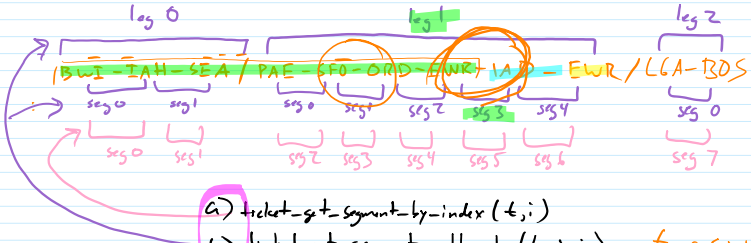
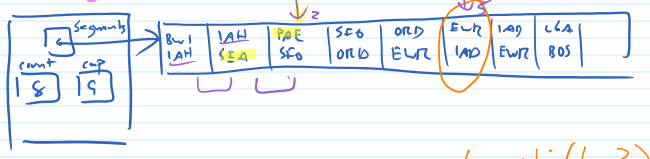


a) ticket_get_segment_by_index(t, i)

b) ticket_get_segment_within_leg(t, i, j)

t_gswl(t, 1, 3)

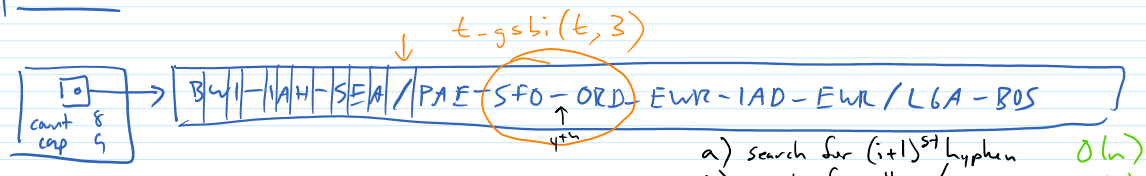
2)



a) return t→segments[i] O(1)

b) 1) find start of leg i / loop O(n)
2) offset from there

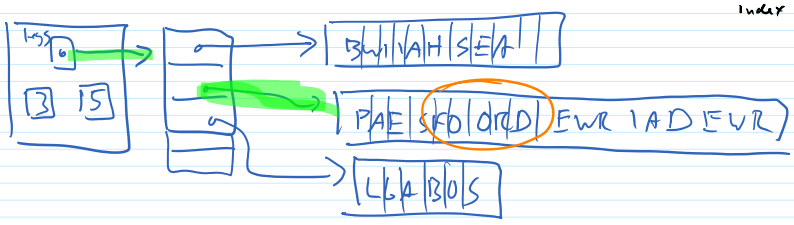
3)



a) search for (i+1)st hyphen O(n)

b) search for jth / index O(n)

4)



a) search through legs to count off segments O(n)

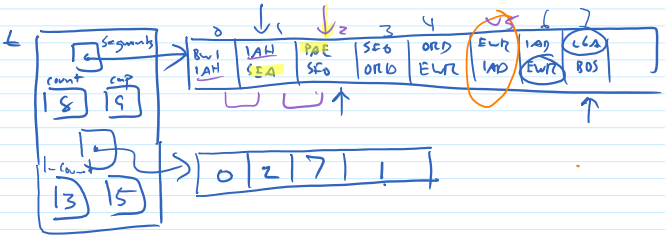
can we do better if we add more information to the ticket struct?

b) strncpy(result.orig, t→legs[i] + j * 3, 3)

strncpy(result.dest, t→legs[i] + (j+1)*3, 3)

O(1)

2')



b) return t→segments[t→legs[i] + j]

O(1)

```
int seg_count = ticket_count_segements(t);
for (int i = 0; i < seg_count; i++)
{
    segment = ticket_get_segment_by_index(t, i);
    printf('%s %s\n",segment.orig, segment.dest));
}
```