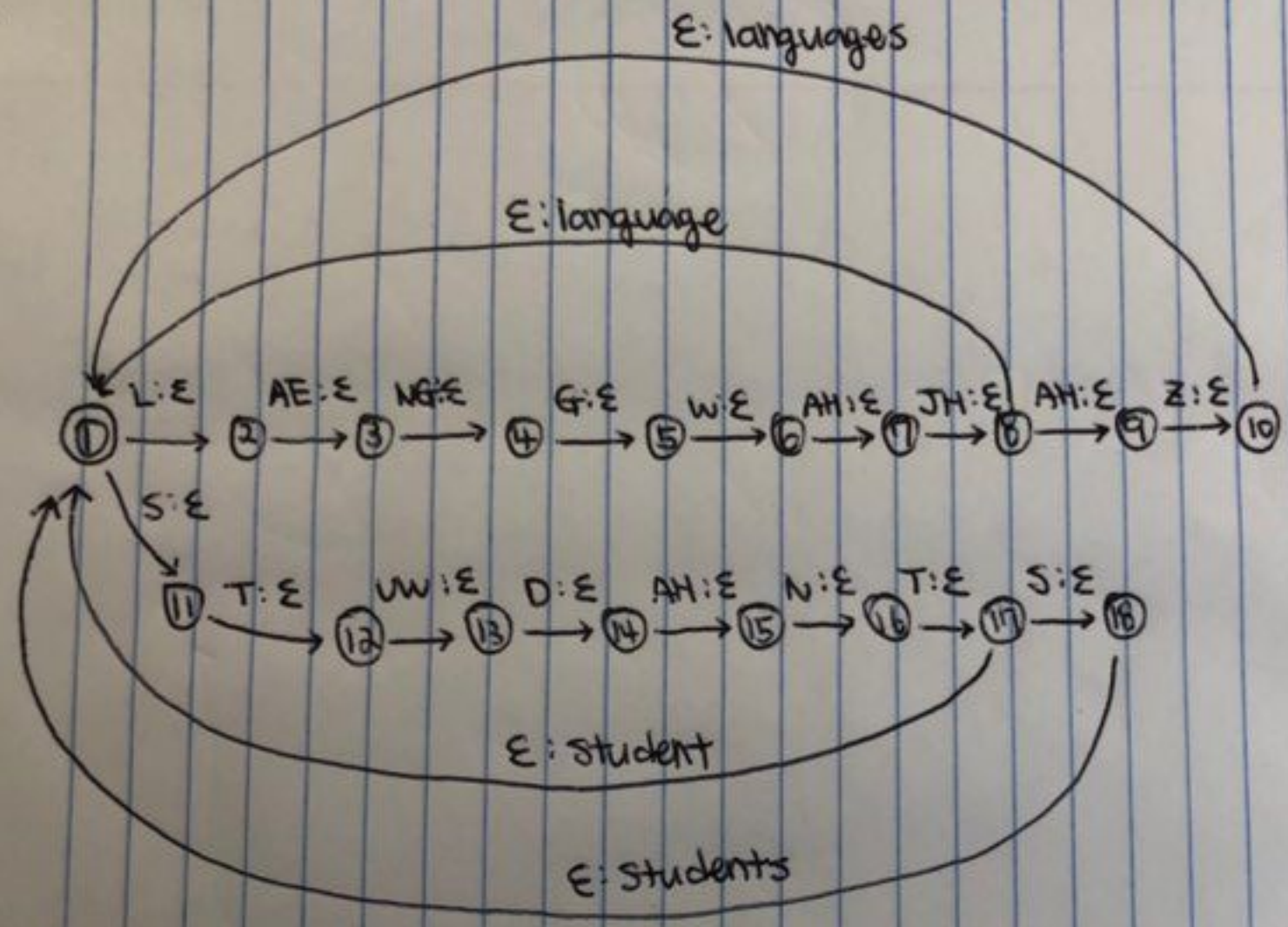
LINNT (Seunghyup Alex Oh 9162019933)

Part1.



Part 2.

```
transition(1, L, 2, eps).
transition(2, AE, 3, eps).
transition(3, NG, 4, eps).
transition(4, G, 5, eps).
transition(5, W, 6, eps).
transition(6, AH, 7, eps).
transition(7, JH, 8, eps).
transition(8, AH, 9, eps).
transition(9, Z, 10, eps).
transition(8, eps, 1, language).
transition(10, eps, 1, languages).

transition(1, S, 11, eps).
transition(11, T, 12, eps).
transition(12, UW, 13, eps).
transition(13, D, 14, eps).
transition(14, AH, 15, eps).
transition(15, N, 16, eps).
transition(16, T, 17, eps).
transition(17, S, 18, eps).
transition(17, eps, 1, student).
transition(18, eps, 1, students).
initial(1).
final(1).
```

Part 3.

(i) W = [aye, scream]
W = [eye, scream]
W = [ice, cream]
W = [ice, creme]
W = [i, scream]
W = [ai, scream]

(ii) fst(T, [computational, linguistics]).
T = [k, aa, m, p, y, uw, t, ey, sh, ah, n, ah, l, l, ih, ng, g, w, ih, s, t, ih, k, s].

fst([k, aa, m, p, y, uw, t, ey, sh, ah, n, ah, l, l, ih, ng, g, w, ih, s, t, ih, k, s], W).
W = [comp, u, tay, shun, ul, iingg, wis, ticks];
⋮

⇒ long lists of W are numerated which represents sequences of English words that sound like "computational linguistics".
- English words that correspond to the pronunciation from T. the results describes that it is hard to recognize speech since there are so many words that have similar / same pronunciations and it is illustrated by long lists of W. Also, there can be multiple synthesis of words in one given word because of pronunciation synthesis.