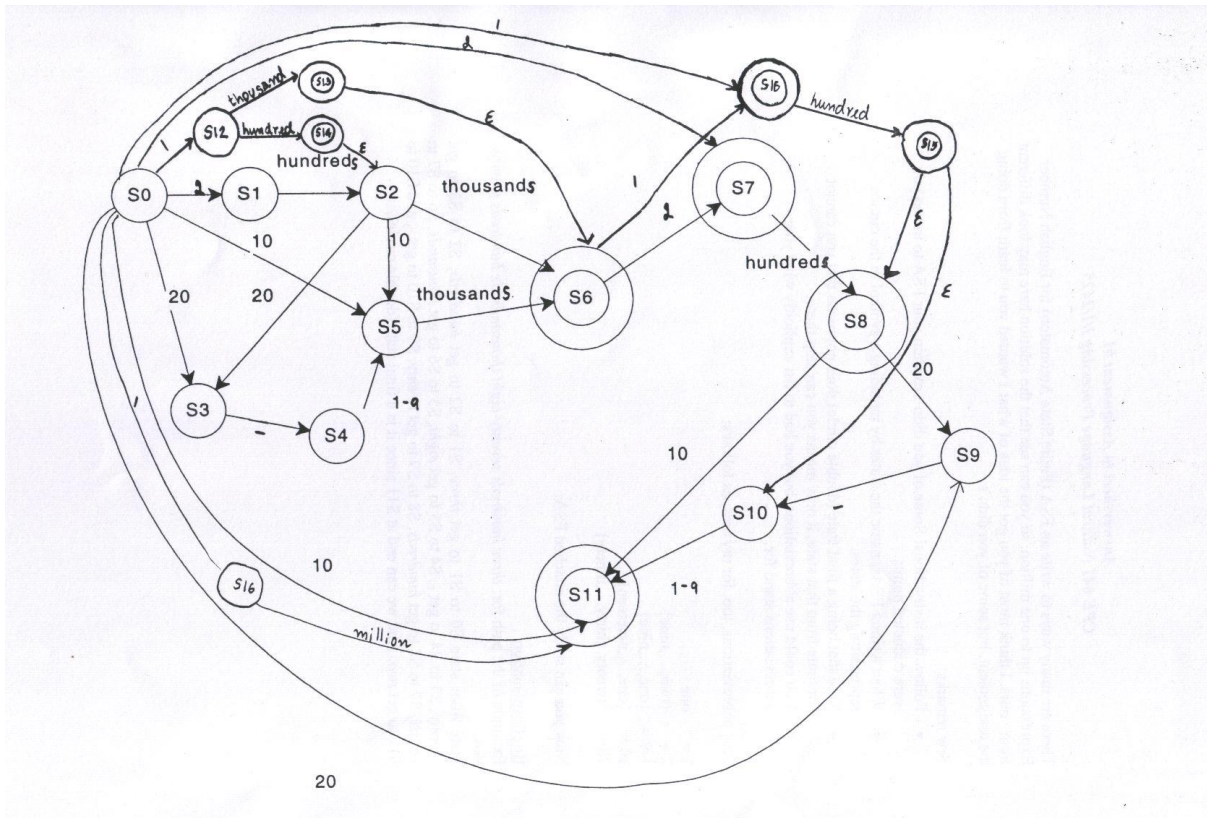


## CPE 372/641 Natural Language Processing

### HOMEWORK 1 SOLUTION IDEAS

- There is no single answer for this question. I show a partial solution of the question. In the following FSA, it covers the amount 1-1,000,000 (20 means twenty, thirty, forty, and so on) with appropriate plural for hundred, thousand and million and the use of – (like in twenty-nine). But you have to expand from this to cover dollars and cents.



- Minimum edit distance between 'oslo' and 'snow'

s	n	o	w		
	0	1	2	3	4
o	1	1	2	2	3
s	2	1	2	3	3
l	3	2	2	3	4
o	4	3	3	2	3
o	s	l	o		
	s	n	o	w	

- (For graduate students only) The solution is simple, but you should understand why and how the RE maps onto the FSA. Answer: RE: (aba?)+