周学宜

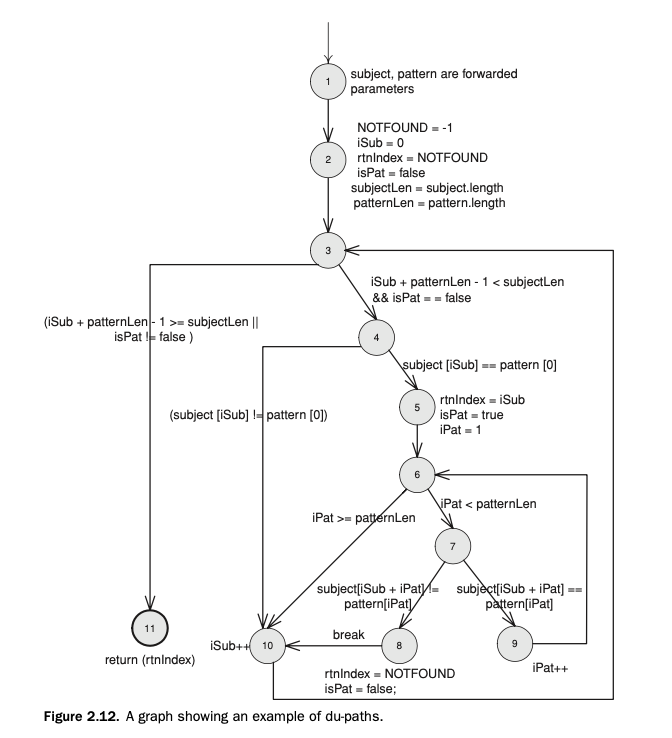
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Software Testing

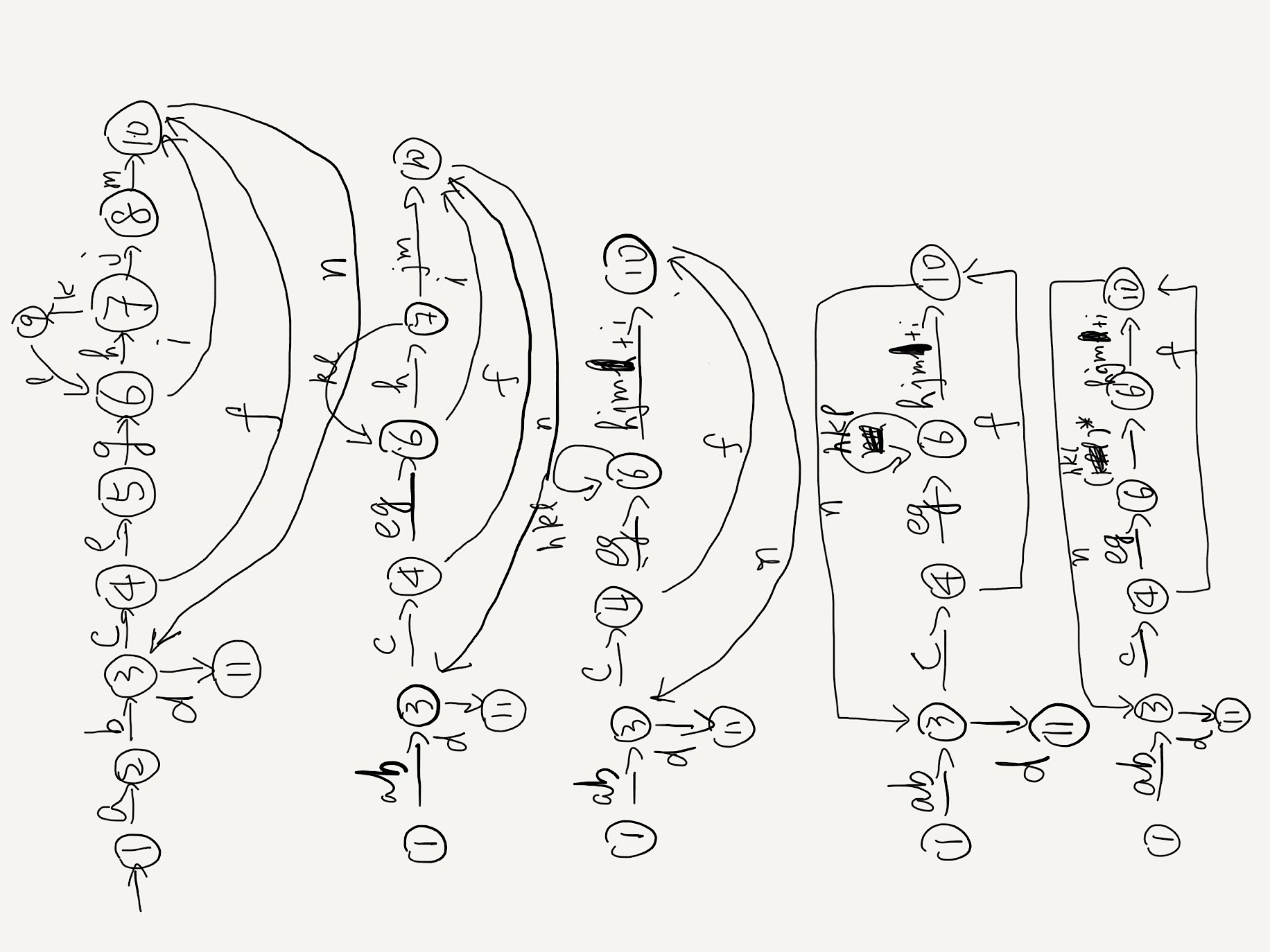
8Th assignment

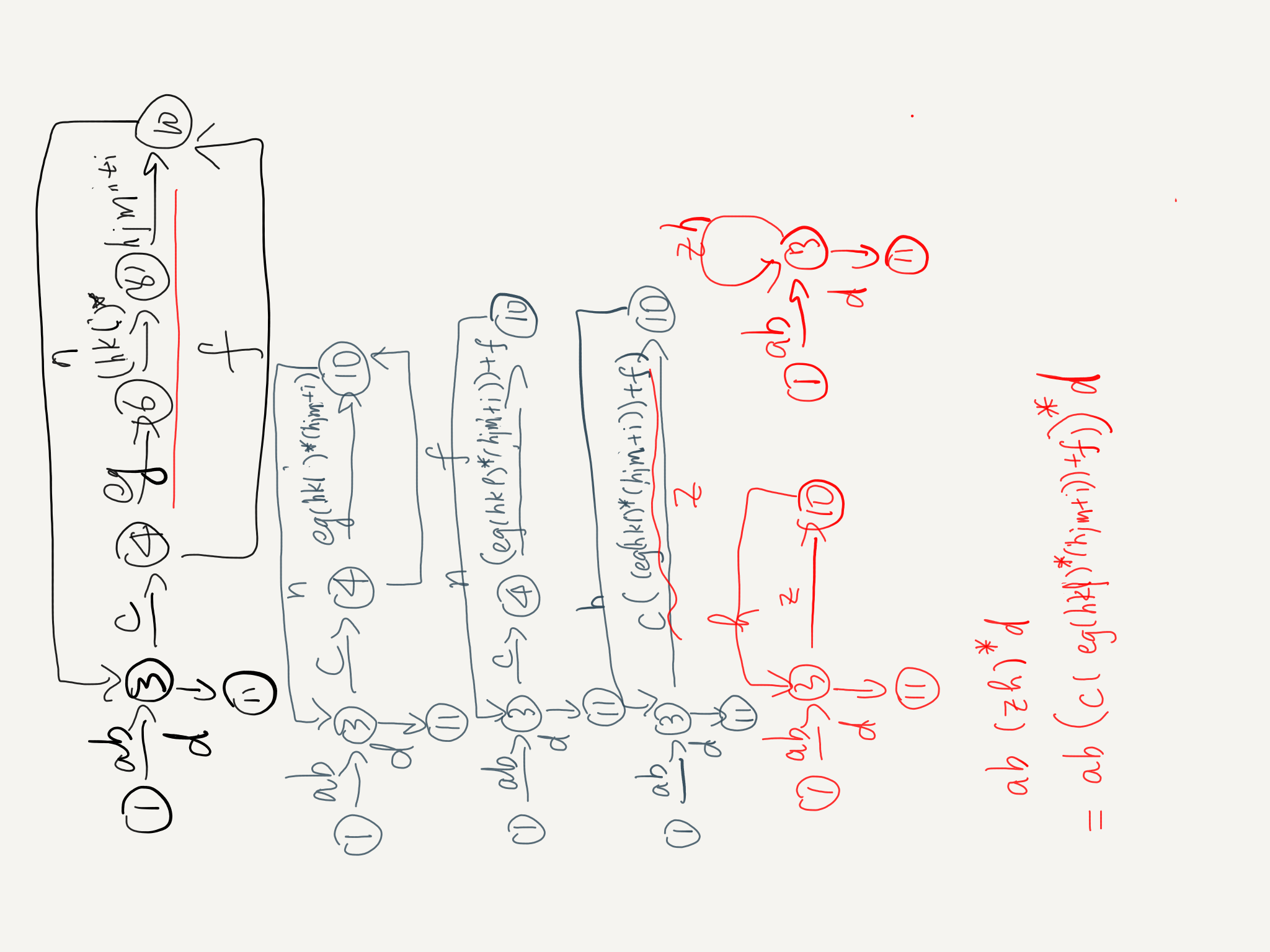
Section 2.7

2. Derive and simplify the path expressions for the three graphs in Figure 2.12. Assign reasonable cycle weights and compute the maximum number of paths in the graph and the minimum number of paths to reach all edges.



Solution:





Assign a ~ n be 1.

a\*b\*(c\*(e\*g\*(h\*k\*l)^z\*(h\*j\*m+i))+f)^y\*d

= 1\*1\*(1\*(1\*1\*(1\*1\*1)^z\*(1\*1\*1+1))+1)^y\*1

= ((z\*2)+1)^y

Because the cumulation of 1^z is z\*1^z = z, we use z instead of 1^z.

Maximum: ∑∑((z\*2)+1)^i

If we set the inner circle is up to 2 time, and the outer circle is up to 2 time too. The Maximum will be 57.

Minimum: 6