

CSU33071 Test 2

In the following questions the test cases are listed on a couple of lines separated by space characters.
The space characters are not part of the test cases.

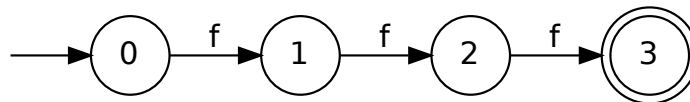
Note: zero is 0, uppercase letter is 0, lowercase is o

Q 2.1

How many of the following 6 strings (whitespace and \n indicate a new string and are not part of the test data)

f ff fff fffffff fffff ffff

are accepted, in part or whole, by the Thompson's construction nondeterministic finite state automaton shown below



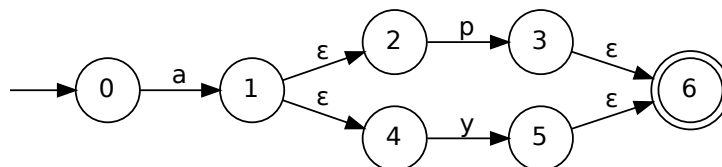
(A) 6 (B) 5 (C) 3 (D) 4 (E) 1 (F) OTHER

Q 2.2

How many of the following 15 strings (whitespace and \n indicate a new string and are not part of the test data)

yyyypppp ppppapppp pppppppppp aaayyp ppppyppp aaapp ppaayyy ppyyyy
yyyyyy ppppyy yyyyyppppp yyyyypppyy yyyap ayyypppp aappppa

are accepted, in part or whole, by the Thompson's construction nondeterministic finite state automaton shown below



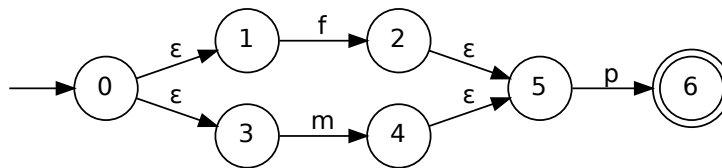
(A) 3 (B) 11 (C) 14 (D) 10 (E) 7 (F) OTHER

Q 2.3

How many of the following 15 strings (whitespace and \n indicate a new string and are not part of the test data)

mmffffmmmm mmffffp pmmmmpppp pppmmm fppmmmm fmmpppp ffppppmmmm mmmpppp
ppppffffppp mmppppp fmmmmpppp fffff fmmppppp mmmpppff mmmmmpp

are accepted, in part or whole, by the Thompson's construction
nondeterministic finite state automaton shown below



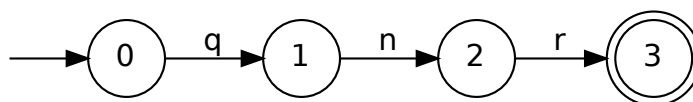
(A) 15 (B) 14 (C) 5 (D) 13 (E) 12 (F) OTHER

Q 2.4

How many of the following 15 strings (whitespace and \n indicate a new string and are not part of the test data)

qqrrrr nnnnqqqr rrrrrrr qqqrqqqq rrrnnnnr qqqrqqqq qqrrrrr qrq
rrrrrrrrrr rrrrrrrrrrr qqqrnn qqqrqqqq rqqqrqqrr rrrnnnnrrrr
nnrrrrrrnn

are accepted, in part or whole, by the Thompson's construction
nondeterministic finite state automaton shown below



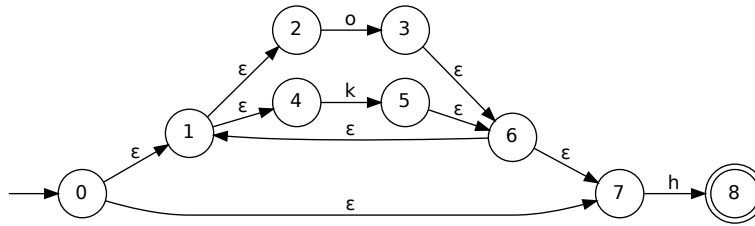
(A) 9 (B) 14 (C) 0 (D) 15 (E) 13 (F) OTHER

Q 2.5

How many of the following 15 strings (whitespace and \n indicate a new string and are not part of the test data)

ooookhh ookkkkhhh ookkkkh ookkkkhh oooookkkkhh oooookkkhhh okkkkh
ookkkhh oooookkkh oooookkkhh oooookh ookkkkhhh oooookkkhhh ookkkh
oooookkkkhhh

are accepted, in part or whole, by the Thompson's construction
nondeterministic finite state automaton shown below



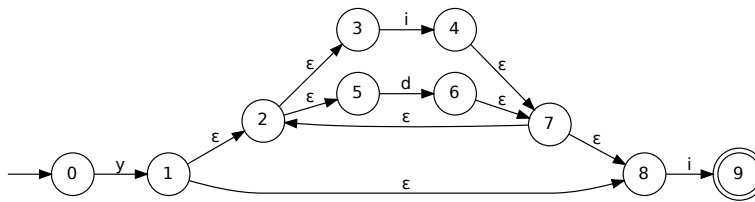
(A) 9 (B) 10 (C) 12 (D) 15 (E) 13 (F) OTHER

Q 2.6

How many of the following 15 strings (whitespace and \n indicate a new string and are not part of the test data)

ddddi iiyd iiiiiiiii iiiddd dddddddd ddddyyyy yydii dddyyyyy
 iiyydddd ddddddddy yyid yyyydddd iiiiddddd dddiyy yyyyiddd

are accepted, in part or whole, by the Thompson's construction
 nondeterministic finite state automaton shown below



(A) 5 (B) 3 (C) 15 (D) 6 (E) 4 (F) OTHER