

computer programming이 무엇인가?

-> a string이다.

write computer program

-> a composition of strings

a set of strings = a set of programs

integer: $A = \{ \}$

polynomial: $B = \{ \}$

1. recursion theorem $r(w) = t(< R >, w)$

2. abstract recursion theorem $E_i = E_{f(i)}$ -> the reason why a quine must exist

E_i returns i: 일 수 있다.

E_{25} returns 25 -> 25 is name of E_{25}

$E_i = E_{f(i)}$ -> What E_i returns = What $E_{f(i)}$ returns

a closed semiring, Warshall's algorithm

$(S, +, \cdot, 0, 1) \rightarrow (\{0, 1\}, \vee, \wedge, 0, 1)$