Ex: 54.7

Enciceosque xiforq estorang promonary primallay ent with operands x and y and binary operations + - and *

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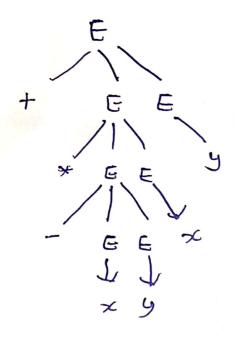
E -> + EF -0 E → * EF -(1) E -> -EF-3 11000 C- E10720 X- Q-10 - HAD -E 533 - @ 1011A

The selection is leftmost E >+ EE -> + * EEE -> + * - EEEE -> + * - XEEE -> + * - xy EE -> +xx-xy xE -> + * 2 * xy xy Rightmest (1) (2) (3) E > + EE > + * EEE -> + * - EEEE -> + * - EEE -> + x - E = xy -> + x - Eyxy -> + x - xyxy a singleting on a

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Parse tree for the derivation of +* x-xy xy



(i) As shown from the leftmost and rightmost derivation of + * * xyxy. The gramman + * - xyxy can be derived from both the derivations therefore the grammar given is unambiguous proved by the given example.