

فصل ۱

محاسبہ پایہ گروبر

input $G_{<_1}(I), <_2$

output $G_{<_2}(I), B_{<_2}(\frac{K[x_1, \dots, x_n]}{I})$

$B_{<_2} = \emptyset, G_{<_2} = \emptyset, t := 0$

while x^α is not a power of largest variable in second order **do**

$w := \text{Next monomial}[x^\alpha];$

$v := \text{Can}(x^\alpha, I, <);$

$\Lambda := \text{LD}[v, \{v_1, \dots, v_r\}];$

if $\Lambda \neq \emptyset$ **then** $G = G \cup \{x^\alpha - \sum \lambda_j x^{\alpha_j}\};$

else $r := r + 1, B_{<_2} := B_{<_2} \cup \{x^\alpha - \sum \lambda_j x^{\alpha_j}\};$

$v_r = v;$

$w_r = w;$