Control-Flow Graph: ./P4_Optimization/test_case_3.txt
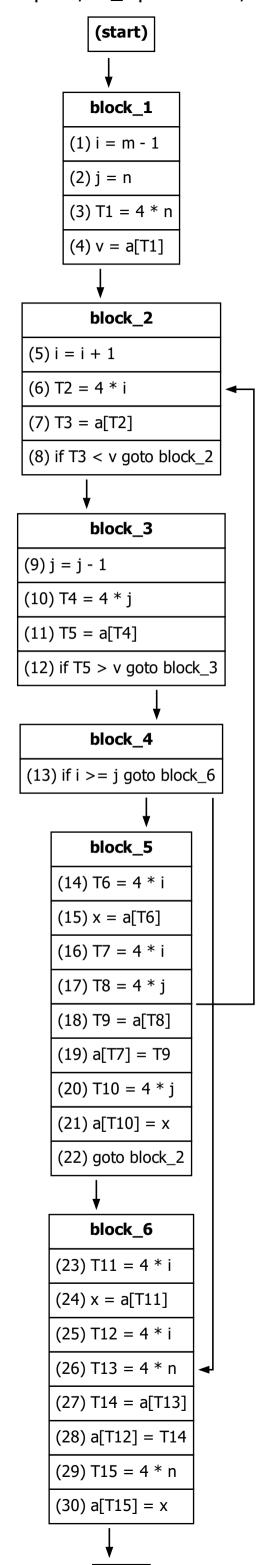
(start)

block_1
(1) i = m - 1
(2) j = n
(3) T1 = 4 * n
(4) v = a[T1]

block_2
(5) i = i + 1
(6) T2 = 4 * i
(7) T3 = a[T2]
(8) if T3 < v goto block_2

block_3
(9) j = j - 1
(10) T4 = 4 * j
(11) T5 = a[T4]
(12) if T5 > v goto block_3

block_4
(13) if i >= j goto block_6

block_5
(14) T6 = 4 * i
(15) x = a[T6]
(16) T7 = 4 * i
(17) T8 = 4 * j
(18) T9 = a[T8]
(19) a[T7] = T9
(20) T10 = 4 * j
(21) a[T10] = x
(22) goto block_2

block_6
(23) T11 = 4 * i
(24) x = a[T11]
(25) T12 = 4 * i
(26) T13 = 4 * n
(27) T14 = a[T13]
(28) a[T12] = T14
(29) T15 = 4 * n
(30) a[T15] = x

(end)