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编译 第九周星期一

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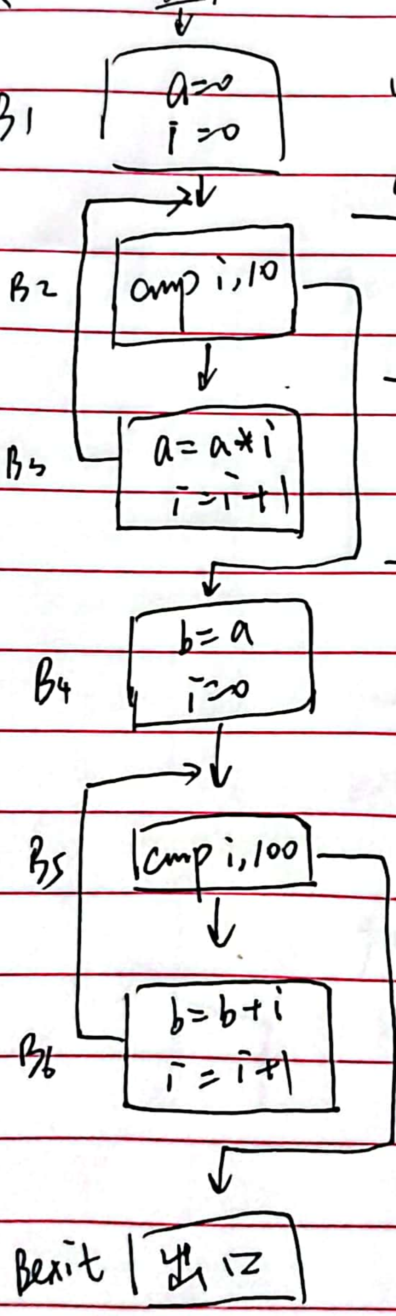
in[B] = use[B] ∪ (out[B] − def[B])

out[B] = $\bigcup_{B\text{的后继}A}$ in[A]

4、图

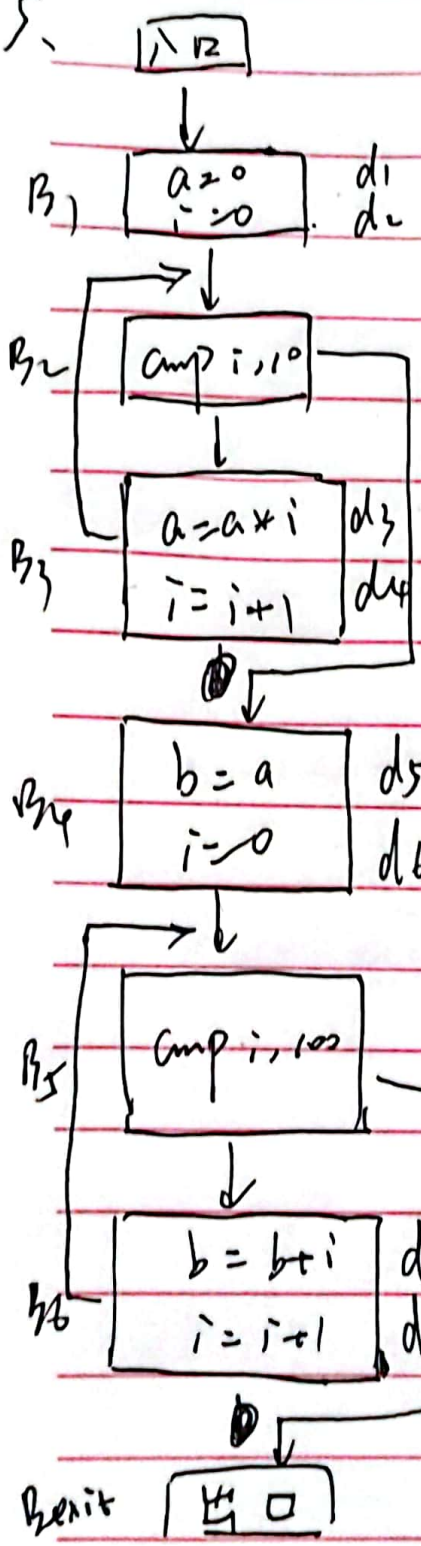


	use	def	out (第一次)	out (第二次)	in (第一次)	in (第二次)
B1	{}	{a,i}	{a,i}	{a,i}	{}	{}
B2	{i}	{}	{a,i}	{a,i}	{a,i}	{a,i}
B3	{a,i}	{}	{}	{a,i}	{a,i}	{a,i}
B4	{a}	{b,i}	{i}	{i}	{a}	{a}
B5	{i}	{}	{}	{}	{i}	{i}
B6	{b,i}	{}	{}	{i}	{b,i}	{b,i}
Bexit	{}	{}	{}	{}	{}	{}

第二次 in[B] 未发生改变 故为最终计算结果

先计算use[B],def[B]. 然后依此自底向上计算 out[B], in[B]. 直至 in[B] 不发生变化!

5、



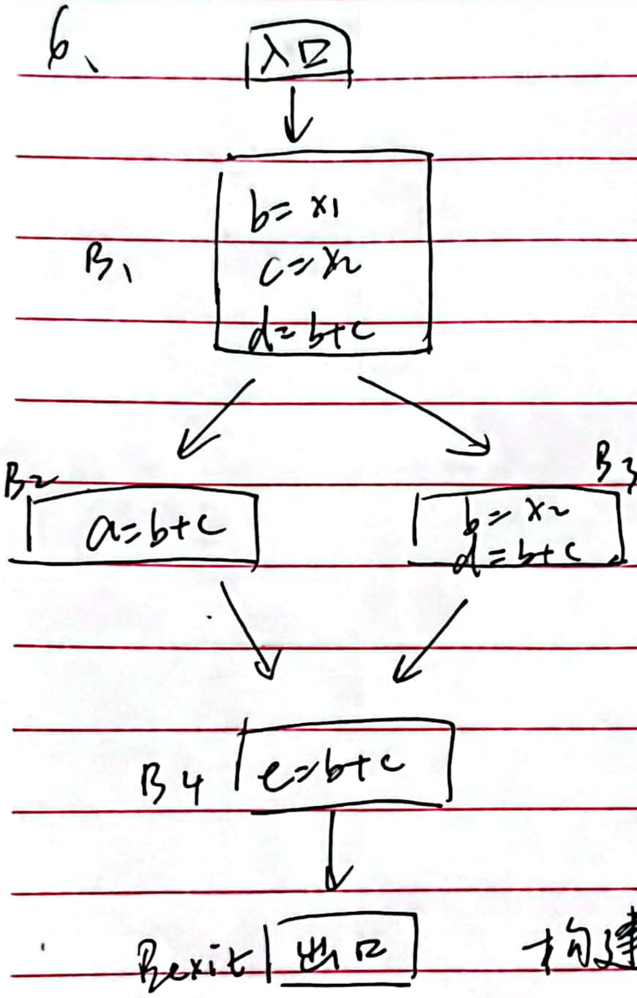
in[B] = ∪ 所有前驱A out[A]. out[B] = gen[B] ∪ {in[B] - kill[B]}

	gen	kill	in	out
B1	{d1,d2}	{d3,d4,d6,d8}	{ } { }	{d1,d2} {d1,d2}
B2	{ }	{ }	{d1,d2} {d1,d2}	{d1,d2} {d1,d2}
B3	{d3,d4}	{d1,d2,d6,d8}	{d1,d2} {d1,d2}	{d3,d4} {d3,d4}
B4	{d5,d6}	{d7,d2,d4,d8}	{d1,d2} {d1,d2}	{d1,d5,d6} {d1,d5,d6}
B5	{ }	{ }	{d1,d5,d6} {d1,d5,d6,d7,d8}	{d1,d5,d6} {d1,d5,d6,d7,d8}
B6	{d7,d8}	{d5,d2,d4,d6}	{d1,d5,d6} {d1,d5,d6,d7,d8}	{d1,d7,d8} {d1,d7,d8}
			{d1,d5,d6} {d6,d7,d8}	

(out[B])

再经一次计算结果不变，故为最终结果

6、



$a: L_1\{\langle B_2,1\rangle\}$

$b: L_2\{\langle B_1,1\rangle, \langle B_1,3\rangle, \langle B_2,1\rangle, \langle B_4,1\rangle\}$

$L_3\{\langle B_3,1\rangle, \langle B_4,2\rangle, \langle B_4,1\rangle\}$

$c: L_4\{\langle B_1,2\rangle, \langle B_2,1\rangle, \langle B_3,2\rangle, \langle B_4,1\rangle\}$

$d: L_5\{\langle B_1,3\rangle\}$

$L_6\{\langle B_3,2\rangle\}$

$e: L_7\{\langle B_4,1\rangle\}$

构建网: $a: W_1\{L_1\{\langle B_2,1\rangle\}\}$

$b: W_2\{L_2\{\langle B_1,1\rangle, \langle B_1,3\rangle, \langle B_2,1\rangle, \langle B_4,1\rangle\}$

$L_3\langle B_3,1\rangle, \langle B_3,2\rangle, \langle B_4,1\rangle\}\}$

$c: W_3\{L_4\{\langle B_1,2\rangle, \langle B_2,1\rangle, \langle B_3,2\rangle, \langle B_4,1\rangle\}\}$

$d: W_4\{L_5\{\langle B_1,3\rangle\}\}, W_5\{L_6\{\langle B_3,2\rangle\}\}$

$e: W_6\{L_7\{\langle B_4,1\rangle\}\}$

冲突图: