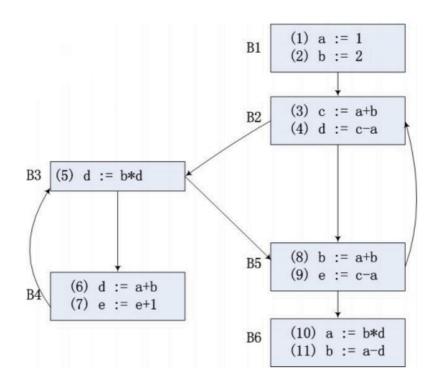
# 编译原理作业 18

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### 题目

对下面的流图, 计算:



(a) ud链和du链

**UD-Chains:** 

Used Variable	definitions
(3, a)	{1}
(3, b)	{2, 8}
(4, c)	{3}
(4, a)	{1}
(5, b)	{2, 8}
(5, d)	{4, 6}
(6, a)	{1}
(6, b)	{2, 8}
(7, e)	{7, 9}
(8, a)	{1}
(8, b)	{2, 8}
(9, c)	{3}
(9, a)	{1}
(10, b)	{8}
(10, d)	{4, 5}
(11, a)	{1}
(11, d)	{4, 5}

### **DU-Chains:**

Definition	Used
(1, a)	{3, 4, 6, 8, 9, 11}
(2, b)	{3, 5, 6, 8}
(3, c)	{4, 9}
(4, d)	{5, 10, 11}
(5, d)	{10, 11}
(6, d)	{5}
(7, e)	{7}
(8, b)	{3, 5, 6, 10}
(9, e)	{7}
(10, a)	{11}
(11, b)	{}

# (b) 每块末尾的活跃变量

Block	Variables
B1	{a, b}
B2	{a, b, c, d}
В3	{b, d}
В4	{a, b, d, e}
B5	{a, b, c, e}
В6	{}

# (c) 可用表达式

Point	Avilable Expressions
1	{}
2	{1}
3	{1}
4	{1, 3}
5	{}
6	{1}
7	{}
8	{1}
9	{1, 3}
10	{8}
11	{1}