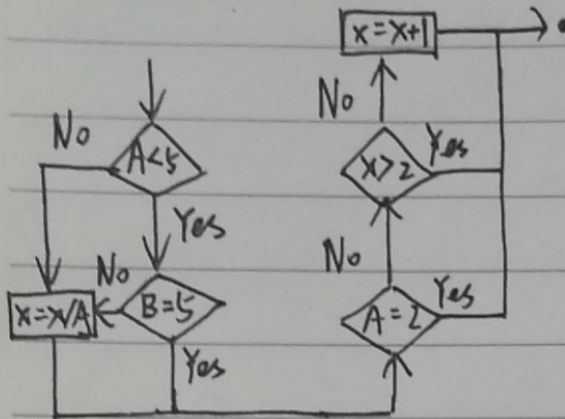


# Assignment5 17343105 田皓

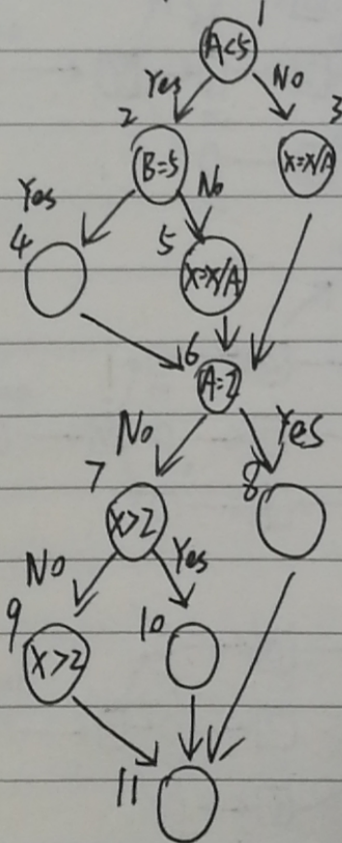
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1. 见下图
2. 见下图

(1) 转换单条件判定结构.



(2) 程序控制流程图.



(3) 邻接矩阵.

(4) 计算 McCabe 环路复杂度

(5) 找出一个独立路径集合.

见正文.

[[0,1,1,0,0,0,0,0,0,0],  
[0,0,0,1,1,0,0,0,0,0],  
[0,0,0,0,0,1,0,0,0,0],  
[0,0,0,0,0,1,0,0,0,0],  
[0,0,0,0,0,1,0,0,0,0],  
[0,0,0,0,0,1,1,0,0,0],  
[0,0,0,0,0,0,0,1,1,0],  
[0,0,0,0,0,0,0,0,0,1],  
[0,0,0,0,0,0,0,0,0,1],  
[0,0,0,0,0,0,0,0,0,1],  
[0,0,0,0,0,0,0,0,0,0]]

4. 计算 *McCabe* 环形复杂度

$$V(G) = m - n + 2 = 14 - 11 + 2 = 5$$

5. 找出程序的一个独立路径集合

- 1-2-4-6-7-9-11
- 1-2-4-6-7-10-11
- 1-2-4-6-8-11
- 1-2-5-6-8-11
- 1-3-6-8-11