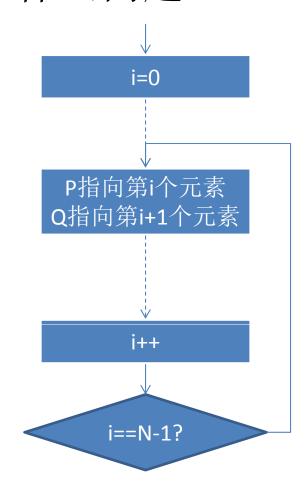
- 书面作业讲解
 - -DH第2章练习1、2、3、4、5、6、7、8

DH第2章练习3

• 下述流程存在什么问题?



DH第2章练习4

• 请将题目的要求翻译成中文

DH第2章练习5b

- Simulate the "if-then" and "if-then-else" statements by "while-do" loops.
 - if CONDITION then BODY
 - if CONDITION then BODY1 else BODY2

DH第2章练习8

- Show how to simulate a "while-do" loop by conditional statements and a recursive procedure.
 - while CONDITION do BODY

- 教材答疑和讨论
 - -DH第2章(续)
 - DH第3章第1单元

问题1:控制结构与流程图

- "选择排序"算法
 - 1. Find the minimum value in the list.
 - 2. Swap it with the value in the first position.
 - 3. Repeat the steps above for the remainder of the list (starting at the second position and advancing each time).
- 绘制其流程图

24

12

78

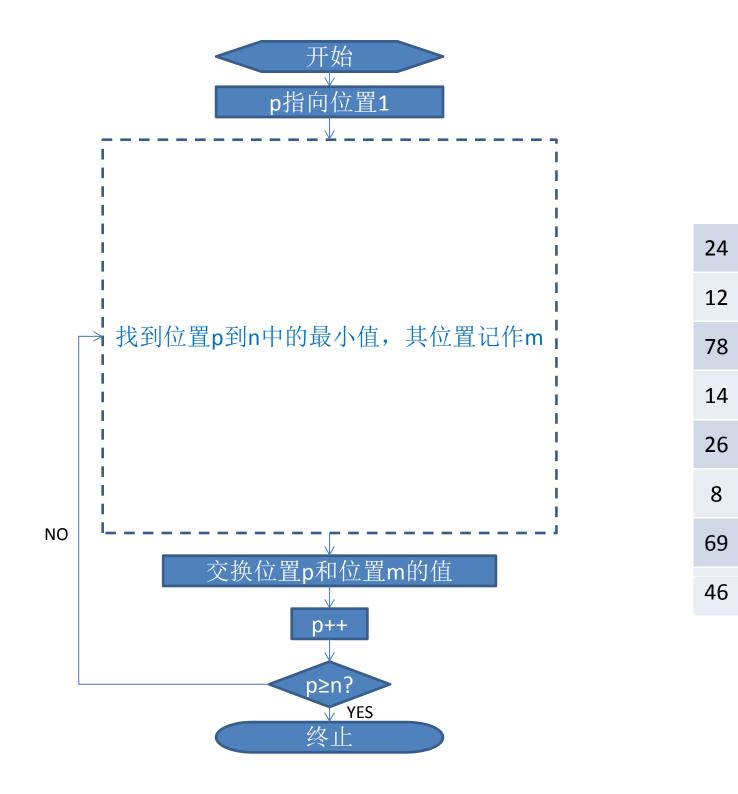
14

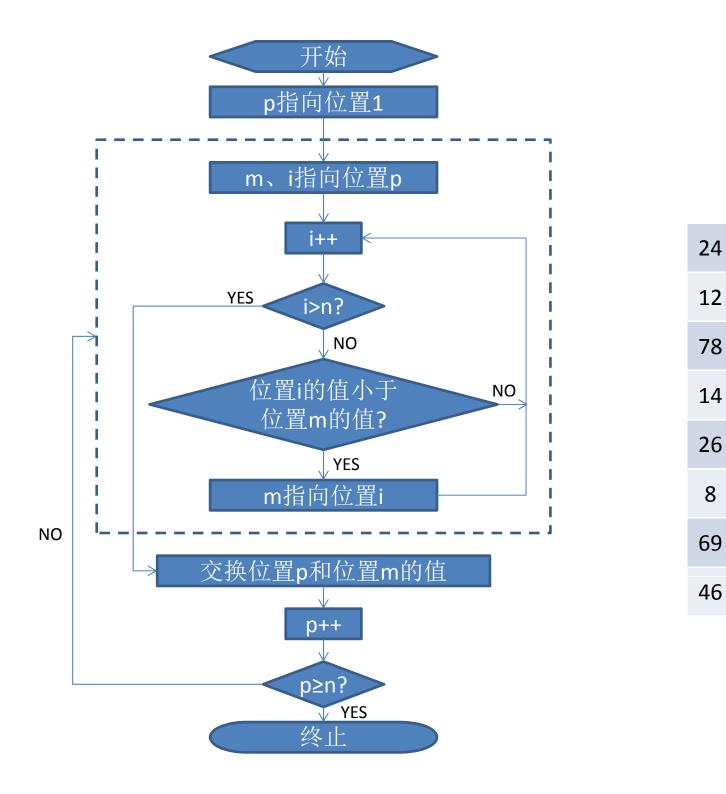
26

8

69

46





问题2: 子程序(函数)的作用

- Subroutines can be very economical as far as the size of an algorithm is concerned.
- Subroutines not only shorten algorithms but also make them clear and well structured.
- All that the user of the subroutine has to know is what it does, but not how it does.
- Using subroutines, it is possible to develop a complex algorithm gradually step by step.

- 下述语言如何表示成BNF?
 - 字母表: 英文字母U数字U下划线
 - -构成句子的规则:
 - 第一个符号只能是英文字母或下划线
 - 后续符号可以是字母表中的任意元素

• 该BNF对应的有穷状态自动机是什么?

- 下述句子是否属于该语言?
 - $-x_{1}$
 - _abc
 - ABC123z7
 - Big_Bonus
 - **-** 12
 - %change
 - data-1
 - PROG.CPP

- 你会使用有穷状态自动机来检查吗?
 - $-x_{1}$
 - _abc
 - ABC123z7
 - Big_Bonus
 - **-** 12
 - %change
 - data-1
 - PROG.CPP

- 你会使用有穷状态自动机来提出修改建议吗?
 - -x1
 - _abc
 - ABC123z7
 - Big_Bonus
 - **-** 12
 - %change
 - data-1
 - PROG.CPP

问题4: 程序语言的语法(2)

- 你能写出下列C++语句对应的BNF吗?
 - while语句
 - 变量声明语句
 - switch语句