

SUMMARY SHEET – DECISION MATHS

Algorithms

Chapter 1 排序问题

The main ideas in this topic are

Understanding and implementing a variety of algorithms expressed as lists of instructions, flow charts or in pseudo code.

What is an algorithm?

An algorithm must have the following properties

- it is a set of precisely defined instructions.
- it has generality: it will work for all valid inputs.
- it is finite: it has a stopping condition.
- it may be an iterative process: you may need to follow the procedure a number of times in order to reach the best solution.

Bin Packing

These are examples of HEURISTIC algorithms. This means that none of these algorithms necessarily lead you to the best or optimal solution of the problem.

1. Full-Bin Algorithm

Look for combinations of boxes to fill bins. Pack these boxes. For the remainder, place the next box to be packed in the first available slot that can take that box.

Note – the full bin algorithm does not always lead to the same solution of the problem. In other words, two people could apply the full bin algorithm perfectly correctly and end up with their boxes packed differently.

2. First-Fit Algorithm

Taking the boxes in the order listed, place the next box to be packed in the first available slot that can take that box.

3. First-Fit Decreasing Algorithm

- Re-order the boxes in order of decreasing size.
- Apply the First-Fit algorithm to this reordered list.

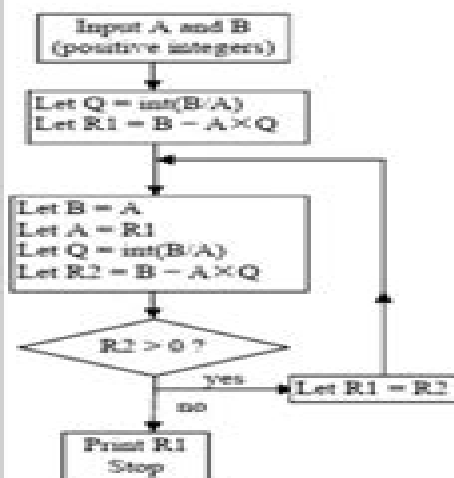
You should be able to form a judgement about the relative efficiency of these algorithms. The First-Fit Decreasing Algorithm requires a sort to be made before applying the First-Fit Algorithm so, in terms of computation, it requires more resources than the First-Fit Algorithm alone.

Before the exam you should know:

- The three bin packing algorithms. These are the Full-Bin Algorithm, the First-Fit Algorithm and the First-Fit Decreasing Algorithm.
- The sorting algorithms. Make sure you know which of these algorithms you need to learn by heart.
- How to count the number of comparisons and swaps in each pass and know the maximum number of passes that are required for a list of a given length.
- The different ways algorithms are presented and make sure you practice following unfamiliar algorithms.
- What is meant by efficiency of an algorithm.

Presenting and Implementing Algorithms

An algorithm is a well-defined, finite sequence of instructions to solve a problem. They can be communicated in various ways, including written English, pseudo-code and flowcharts. Make sure you are experienced in all possible formats.



Example

a) What is the output of the algorithm when $A = 84$ and $B = 660$?

b) What does the algorithm achieve?

Solution

a)

A	84	72	12
B	660	84	72
Q	7	1	6
R1	72		12
R2		12	0

PRINT 12

b) It finds the highest common factor of A and B.

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Dave Sumpner, Julia Morrison

A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the authors' names.

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