动态规划

人基本思想

Dynamic Programming DP 求最优外

方法:大问题→子问题→子问题答案

上 从保在
再發就越 数组

空间换时间

Step

- ①分析最优子结构性质(尾椎关系)
- ②递归定义最优值(核心)
- ③自底向上计算最优值 ()封约)
- 田构造最优级

Example | Fibonacci Use Array to store the answer Example 2. numbers triangle Qa group of island n layer has n islands each island has it's Integer value input from I layer, output from n layer can't retreat Max value?

Solution O Store in 20 array

- num 0 1 2 3 4
 0 9
 1 12 15
 2 10 6 8
 3 2 18 9 5
 4 19 7 10 4 16
- 2 Compare greedy algorithm
 9+1+8+9+10=51
- It is not optimal, top to bottom

 It only can choose the most valuable road.

 based on current situation
- 3 Dynamic Programming: bottom to top like System Analysis decision tree

