1 Conquer Algorithm

1.1 Introduction

These algorithms mainly contain with:

- divide and conquer
- decrease and conquer
- change and conquer

1.2 Pseudo code

```
Algorithm 1 Divide-and-Conquer algorithm
Require: The total problem p
Ensure: The result of problem T
 1: function DIVIDE-AND-CONQUER(p)
                                                                                 ⊳ Input problem as p
        if |P| \leq n_0 then
 2:
                                                                   ⊳ If p is small enough, deal with it
            return(Adhoc(p))
 3:
        end if
 4:
        Divide p into sub-problems: p_1, p_2, ..., p_k
 5:
        for i \leftarrow 1 to k do
 6:
            y_i \leftarrow \text{Divide-and-Conquer}(p_i)
                                                                            \triangleright Deal with p_i recursively
 7:
        end for
        T \leftarrow Merge(y_1, y_2, ..., y_k)
                                                                               9:
        return T
10:
11: end function
```

data1	data2	data3
sex	10	3
hell	9	6

表 1: algorithm's table

1.3 Flowchart



图 1: algorithm's flowchart

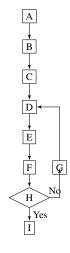


图 2: flowchart2

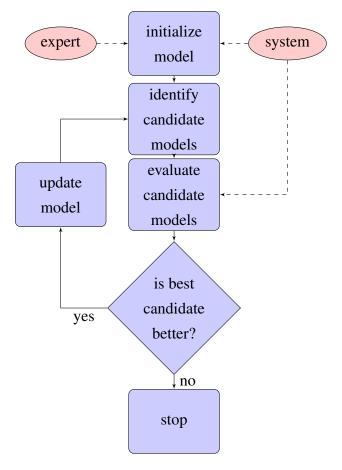


图 3: flowchart3

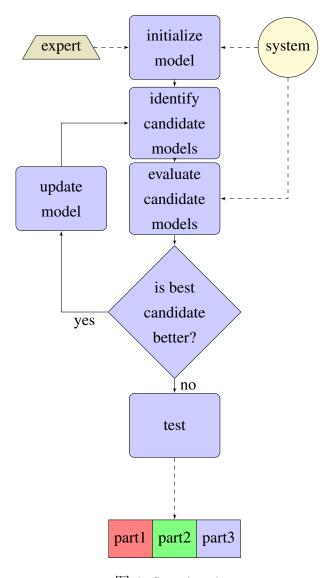


图 4: flowchart4