1 Sorting, Searching and Matching Algorithms

1.1 Introduction

This project mainly contain with

- Sorting algorithm
- Searching algorithm
- Matching algorithm

1.2 Pseudo code

Algorithm 1 Euclid's algorithm

```
1: function EUCLID(a, b)                          ▷ The g.c.d. of a and b
2:     r ← a mod b
3:     if condition ok then
4:         then do it
5:     end if
6:     while r ≠ 0 do                             ▷ We have the answer if r is 0
7:         a ← b
8:         b ← r
9:         r ← a mod b
10:    end while
11:    return b                                   ▷ The g.c.d. is b
12: end function
```

1.3 Flowchart

data1	data2	data3
sex	10	3
hell	9	6

表 1: algorithm's table

图 1: algorithm's flowchart

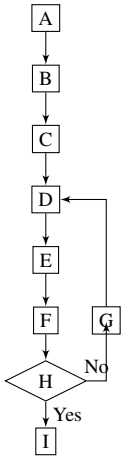

图 2: flowchart2

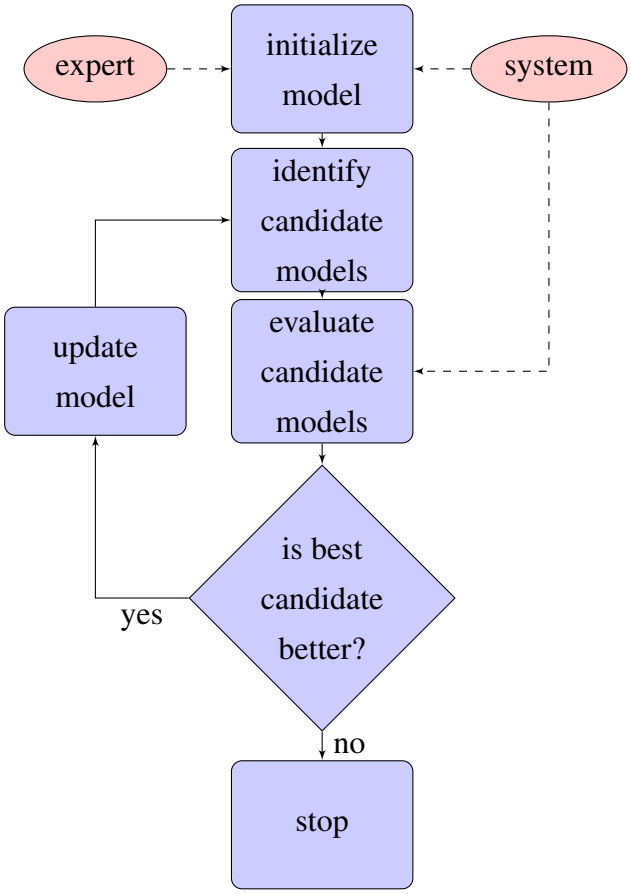

图 3: flowchart3

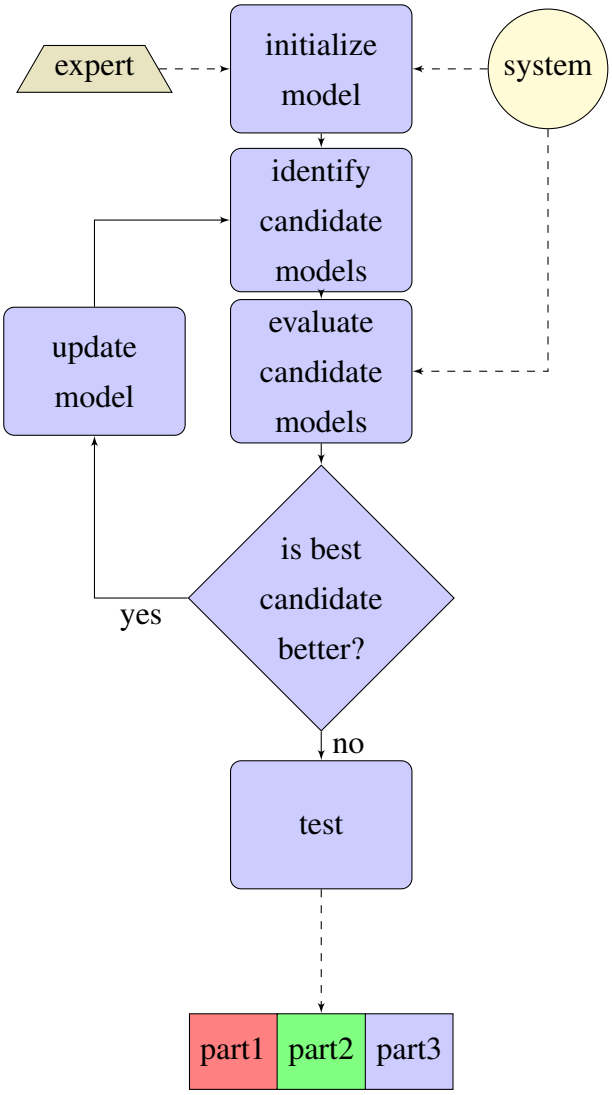

图 4: flowchart4