## Algorithm 1 最小二乘法求温度

```
Input: G: Time, Temp
                                                                    ▷ 导入附件里的时间和温度
                                                                       ▷ 系数1 系数2 温度分布
Output: P: [he hp T]
 1: function GetTemperature
       He = [0, 200]
 2:
      Hp = [0, 10]
 3:
       for each he in He step = 0.5 do
 4:
          for each hp in Hp step = 0.005 do
 5:
             for each t in Time step = 1 do
 6:
                for each x in Layer1 do
 7:
                                                                         ▷ t时刻x位置处的温度
                   Calculate T(x, t)
 8:
                end for
 9:
                for each x in Layer2 do
10:
                   Calculate T(x, t)
11:
                end for
12:
                for each x in Layer3 do
13:
                   Calculate T(x, t)
14:
                end for
15:
                for each x in Layer4 do
16:
                   Calculate T(x, t)
17:
                end for
18:
                Error = \sum_{i=0}^{5400} (Temp(i) - T(end, i))^2
                                                                                       ▷ 误差
19:
20:
             end for
          end for
21:
      end for
22:
                                                                         ▷ 得到误差最小的索引
23:
      Find the index of minimum Error
      P = [He(index) Hp(index) T(index)]
                                                              ▷ 误差最小的he、hp和温度分布T
24:
      return P
25:
26: end function
```