## 比赛的冠亚季军

题目描述:有 N(3<=N<10000)个运动员,他们的 id 为 0 到 N-1, 他们的实力由一组整数表示。他们之间进行比赛,需要决出冠亚军。比赛的规则是 0 号和 1 号比赛,2 号和 3 号比赛,以此类推,每一轮,相邻的运动员进行比赛,获胜的进入下一轮;实力值大的获胜,实力值相等的情况,id 小的情况下获胜;,轮空的直接进入下一轮.输入描述:输入一行 N 个数字代表 N 的运动员的实力值 (0<= 实力值<=100000000000)。

输出描述:输出冠亚军的 id,用空格隔开。

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∨ 展开
示例1
输入:2345
输出:312
说明:第一轮比赛,id为0实力值为2的运动员和id为1实力值为3的运动员比赛,1号胜出进入下一轮争夺冠亚军,id为2的运动员和id为3的运动员比赛,3号胜出进入下一
    轮争夺冠亚军;冠亚军比赛,3号胜1号;故冠军为3号,亚军为1号。2号与0号,比赛进行季军的争夺,2号实力值为4,0号实力值2,故2号胜出,得季军。冠亚季
  1
       abilities = [int(x) for x in input().split()]
  2
       win_ids = list(range(len(abilities)))
  3
       while len(win_ids) > 4:
  4
         tmp_win_ids = []
  5
         for i in range(len(win_ids)//2):
  6
            if abilities[win_ids[2*i]] < abilities[win_ids[2*i + 1]]:
  7
              tmp_win_ids.append(win_ids[2*i + 1])
  8
            else:
  9
              tmp_win_ids.append(win_ids[2*i])
 10
         win ids = tmp win ids
 11
       candidate_champion_ids = []
       candidate_third_ids = []
 13
 14
      if abilities[win_ids[0]] < abilities[win_ids[1]]:
 15
         candidate_champion_ids.append(win_ids[1])
 16
         candidate_third_ids.append(win_ids[0])
 17
       else:
 18
         candidate_champion_ids.append(win_ids[0])
         candidate_third_ids.append(win_ids[1])
       if abilities[win_ids[2]] < abilities[win_ids[3]]:
         candidate_champion_ids.append(win_ids[3])
         candidate_third_ids.append(win_ids[2])
 23
       else:
 24
         candidate_champion_ids.append(win_ids[2])
 25
         candidate_third_ids.append(win_ids[3])
 27
       if abilities[candidate_champion_ids[0]] < abilities[candidate_champion_ids[1]]:
 28
         champion = candidate_champion_ids[1]
         second = candidate_champion_ids[0]
         champion = candidate_champion_ids[0]
         second = candidate_champion_ids[1]
       if abilities[candidate third_ids[0]] < abilities[candidate third_ids[1]]:
 34
         third = candidate_third_ids[1]
         third = candidate_third_ids[0]
       print(champion, second, third)
```