

PA5

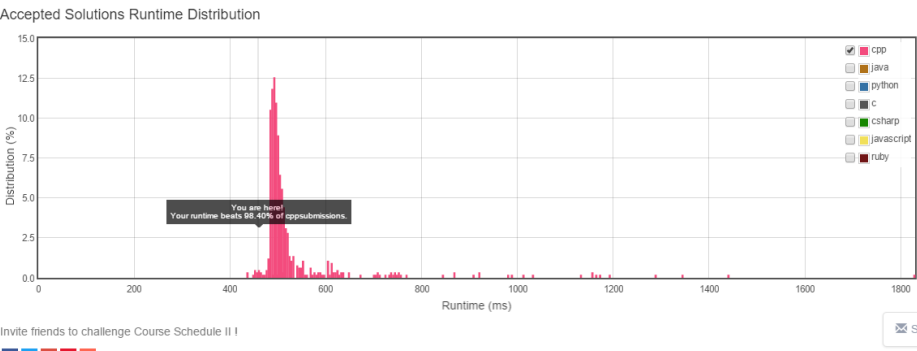
LeetCode ID : ChenJiayang

Questions	Status	Run Time	Language
Course Schedule II	Accepted	488 ms	cpp
Course Schedule II	Accepted	499 ms	cpp
Course Schedule II	Compile Error	N/A	cpp
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Submission Details

36 / 36 test cases passed.
Runtime: 488 ms

Status: Accepted
Submitted: 0 minutes ago



Code (C++)

```
1 class Solution {
2 public:
3     vector<int> findOrder(int numCourses, vector<pair<int, int>>& prerequisites)
4     {
5         vector<int> res;
6         vector<vector<int>> graph(numCourses, vector<int>(0));
7         vector<int> inDegree(numCourses, 0);
8         for (auto u : prerequisites)
9         {
10             graph[u.second].push_back(u.first);
11             ++inDegree[u.first];
12         }
13
14         queue<int> que;
15
16         for (int i = 0; i < numCourses; ++i)
17         {
18             if (inDegree[i] == 0) que.push(i); //入队
19         }
20
21         while (!que.empty())
22         {
23             int u = que.front();
24             res.push_back(u);
25             que.pop();
26             for (auto v : graph[u]) //对于与u相连的点v
27             {
28                 --inDegree[v]; //删除v的边
29                 if (inDegree[v] == 0) que.push(v); //全部删完时
30             }
31         }
32         if (res.size() != numCourses)
33         {
34             return res.clear(); //有环
35         }
36         return res;
37     }
38 };
39
```