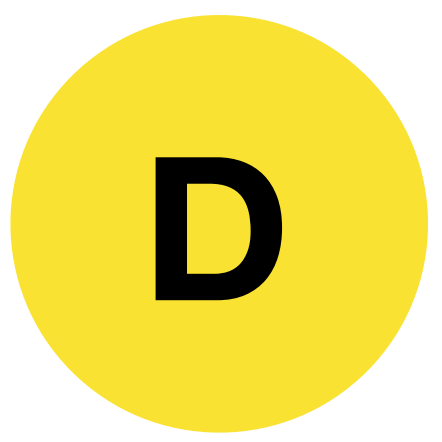
D


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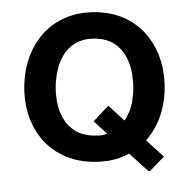
9

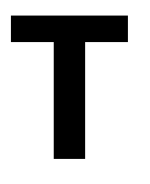
6


dist

path

collected



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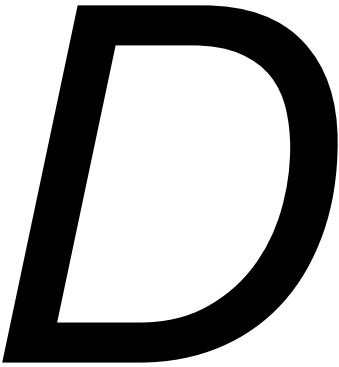
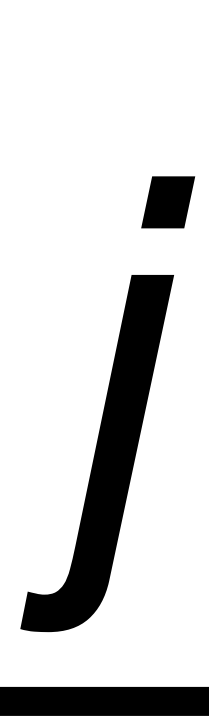
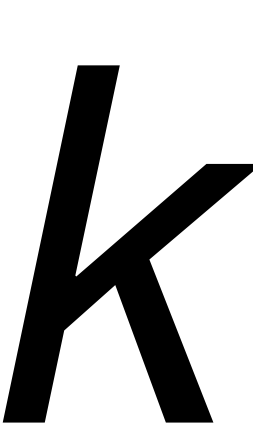
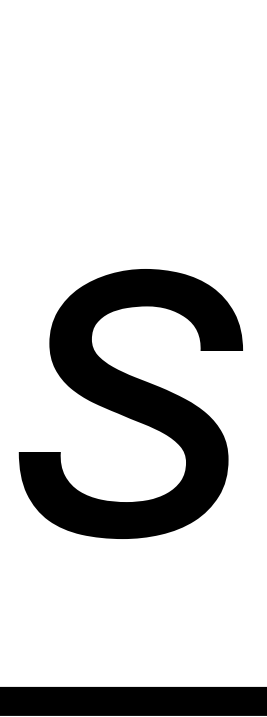
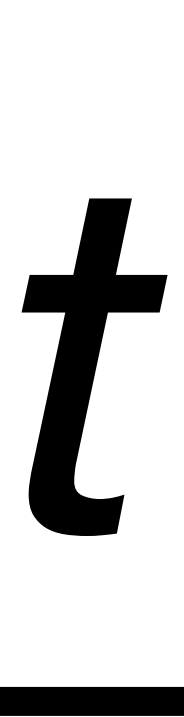
start = P

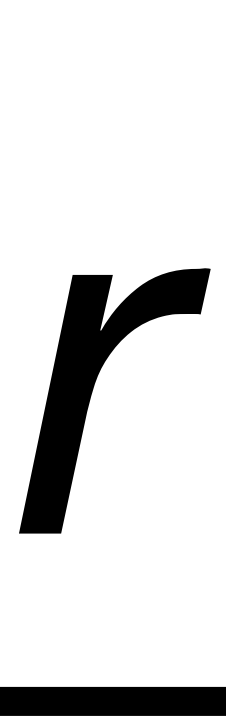


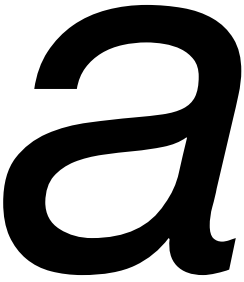

j











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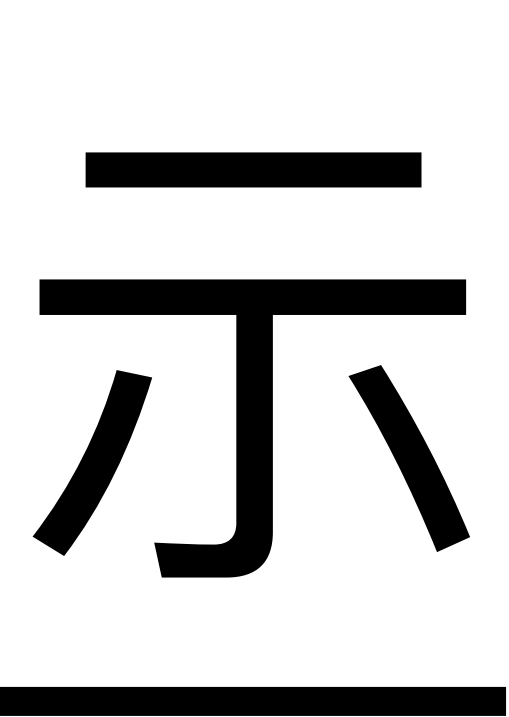
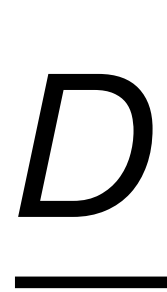
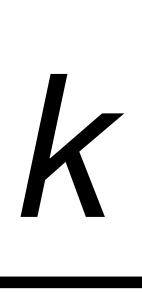


```
void Dijkstra(int start)
{
    init();
    dist[start] = 0;
    while(true){
        int min = INT_MAX;
        int min_index = -1;
        for( int i = 1; i <= n; i++){
            if(min > dist[i] && !collected[i]){
                min = dist[i];
                min_index = i;
            }
        }           // 14-19行为找出最近的未被收录的点
        if(min_index == -1){    // 如果找不到，跳出循环
            break;
        }
        collected[min_index] = true;    // 将该点收录，
        for( int i = 1; i <= n; i++){   // 遍历该点的邻接点
            if(map[min_index][i] != -1 && !collected[i]){
                int temp = dist[min_index] + map[min_index][i];
                if(temp < dist[i]){
                    dist[i] = temp;
                    path[i] = min_index;
                }
            }
        }
    }
}
```


D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