

# The postman

Originally taken from:

<https://szkopul.edu.pl/problemset/problem/nsSLrY6UH0E6VMOb3k5kOAtO/site/?key=statement>

You have directed graph (not multigraph) of  $n$  vertices and  $m$  edges. Find sequence which visit every edge exactly once and starts end ends in vertex 0.

However there is some other specific rule: There is  $k$  sequences of vertices and each of them should be unbroken subsequence of your sequence.

Decide if such sequence exists and if exists, find any of them.

## Limits

- $n \leq 50\,000$
- $m \leq 200\,000$
- Sum of length of  $k$  sequences  $\leq 1\,000\,000$