



## Primov algoritmus

$S := \{s\};$

$T := \text{empty set};$

while  $S \neq V$  do

$e := (u,v)$  such that  $u$  is in  $S$ ,  $v$  is not in  $S$  and (\*)

$w(e)$  is smallest possible;

    add  $v$  to  $S$ ;

    add  $e$  to  $T$ ;

return  $T$ ;

```

S := {s};
T := empty set;
// initialize data structure
for each u not in S
    dist[u] := w(s,u); other[u] := s;
// main computation
while S<>V do
    v := vertex which is not in S and has the smallest dist[v];
    e := (v, other[v]);
    add v to S; add e to T;
    // update data structure
    for each x not in S
        if w(v,x)<dist[x] then
            dist[x] := w(v,x);
            other[x] := v;
return T;

```

Žilina	08:40			10:40	11:19		11:42
Poprad	10:45	10:54	12:36	12:50	13:10	13:46	14:54
SNV	11:07	11:21	13:14	13:09		14:16	15:21
Sp.Vlachy		12:46	13:46			14:45	15:47

Sp.Vlachy	11:50	14:30	14:55	16:30
Sp.Podhr.	12:20	14:40	15:07	16:40

Poprad	10:25		12:25		12:55	13:25	15:10	
Levoca	11:15	12:15	13:08	13:15	13:45	14:15	15:43	16:15
Sp.Podhr.	11:32	12:32	13:22	13:32	14:02	14:32	16:05	16:32

SNV	11:31	12:41	13:16	15:45
Levoca	11:55	13:01	13:40	16:09