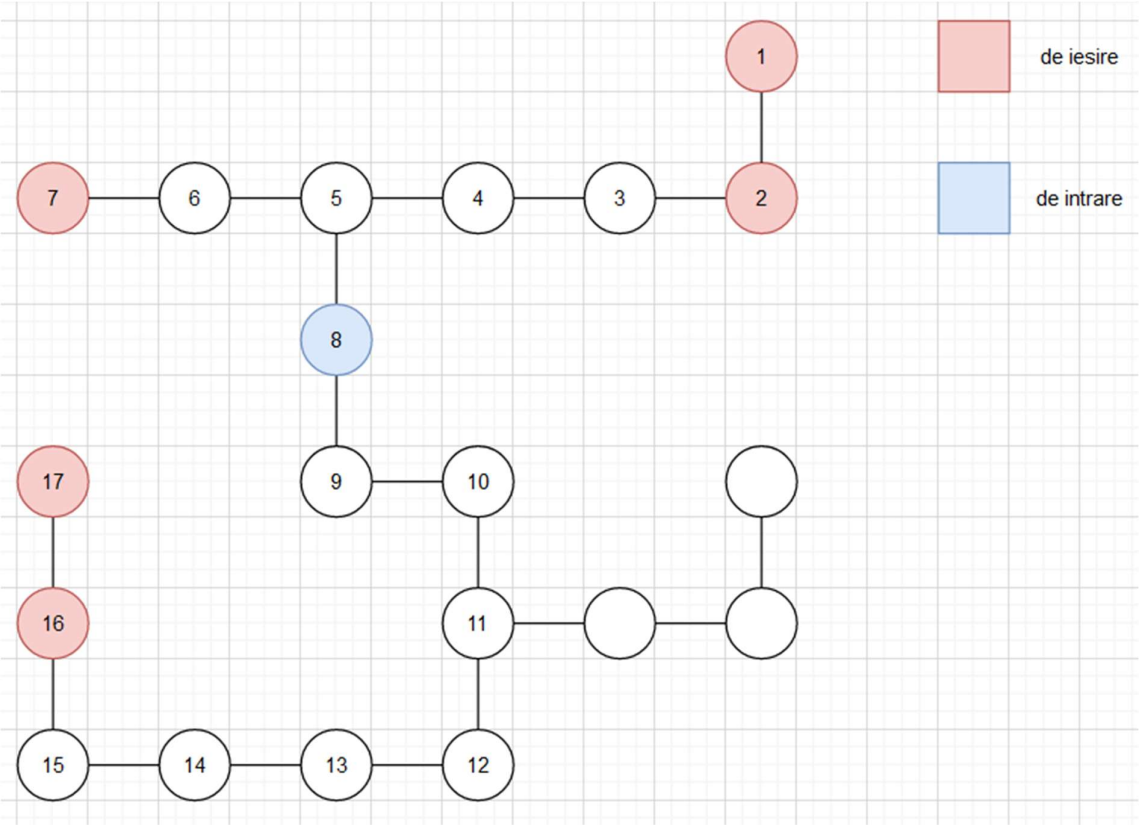


Pseudocod:

```
(1)  PROGRAM PBF;
(2)  BEGIN;
(3)     $U := N - \{s\}; V := \{s\}; W := \emptyset;$ 
(4)    FOR toți  $y \in N$  DO  $p(y) := 0;$ 
(5)     $l(s) := 0;$ 
(6)    FOR toți  $y \in U$  DO  $l(y) := \infty;$ 
(7)    WHILE  $V \neq \emptyset$  DO
(8)      BEGIN
(9)        se selectează cel mai vechi nod  $x$  introdus în  $V$ ;
(10)       FOR  $(x, y) \in A$  DO
(11)         IF  $y \in U$ 
(12)           THEN  $U := U - \{y\}; V := V \cup \{y\}; p(y) := x;$ 
                      $l(y) := l(x) + 1;$ 
(13)        $V := V - \{x\}; W := W \cup \{x\};$ 
(14)     END;
(15)  END.
```

Tema 3:



s=8
v={~~8~~,5,9,4,6
w=8
u={1,2,3,4,5,6,7,9,10,11, ...
p= 0 0 0 ~~0~~ ~~0~~ ~~0~~ ~~0~~ ~~0~~ 0 0

x=8
y=5
y=9

x=5
y=4
y=6