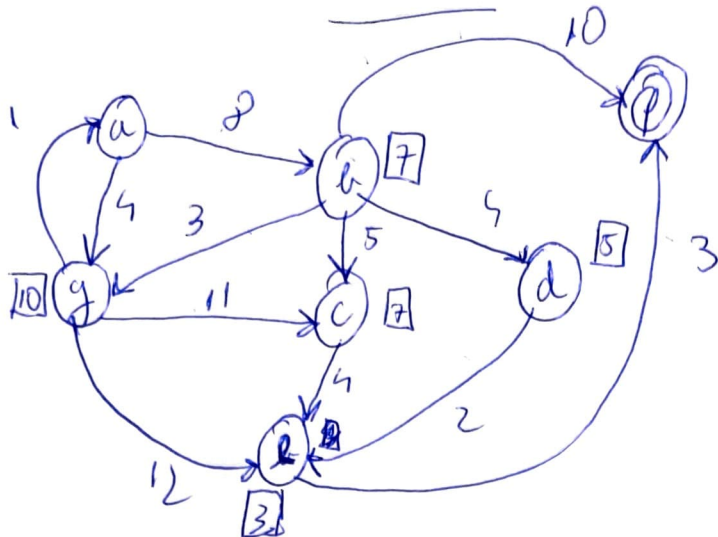


Deemiteru Florentin Gialiano

Grupa 233

Problem 1

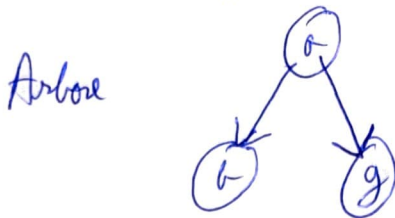


Pas 1. Arbore: (a)

Open = { Nodul (a, f are parinte, cost=0, $h=0$) }

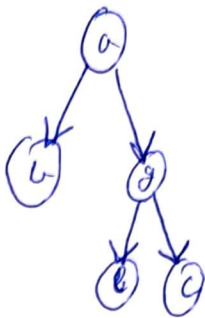
closed = { }

Pas 2. Expand



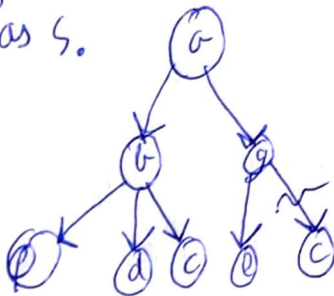
closed = { Node (a, Fast printer, cost=0, h=0) }
 open = { Node (g, a, 4, 10), Node (b, a, 8, 7) }

Pos 3.



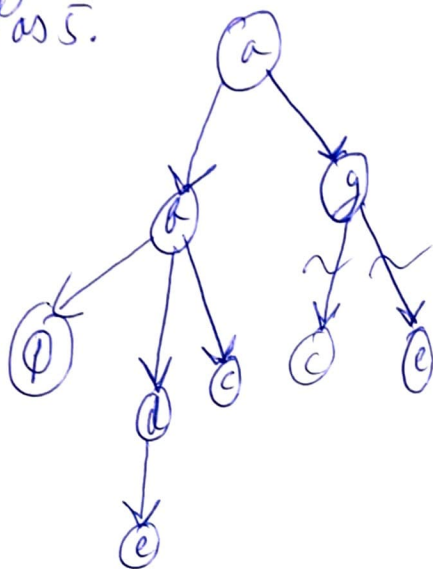
closed = { Node (a, Fast printer, cost=0, h=0),
 Node (g, a, 4, 10) }
 open = { Node (b, a, 8, 7), Node (e, g, 16, 3),
 Node (c, g, 15, 7) }

Pos 4.



closed = { Node (a, Fast printer, cost=0, h=0),
 Node (g, a, 4, 10), Node (b, a, cost=8, 7) }
 open = { Node (d, b, 12, 5), Node (f, b, 18, 0),
 Node (e, g, 16, 3), Node (c, b, 13, 2) }

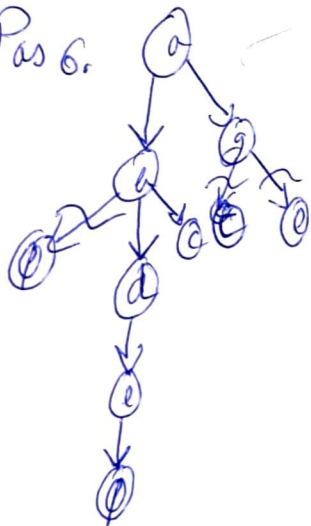
Pass 5.



closed = { Node(a, Null, 0, 0), Node(g, a, 4, 10), Node(b, a, 8, 7), Node(d, b, 12, 5) }

open = { ^{Node}(e, d, 15, 3), Node(p, b, 18, 0), Node(c, b, 13, 7) }

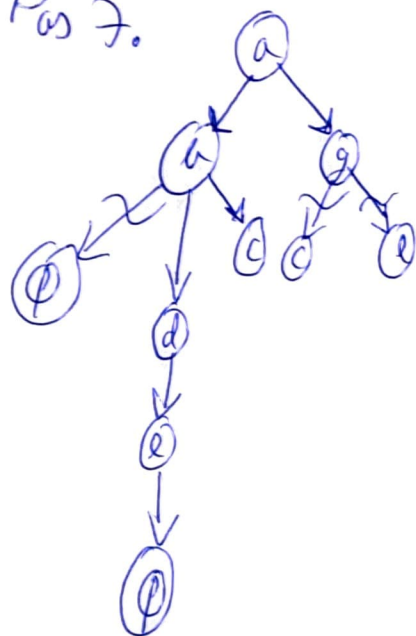
Pass 6.



closed = { Node(a, Null, 0, 0), Node(g, a, 4, 10), Node(b, a, 8, 7), Node(d, b, 12, 5), Node(e, d, 15, 3) }

open = { Node(p, e, 17, 0), ~~Node(c, b, 13, 7)~~, Node(c, b, 13, 7) }

Pos 7.



closed = [Nodul (b , Null, 0, 0), Nodul (g, a, 9, 10),
Nodul (b, a, 8, 7), Nodul (d, b, 12, 5), Nodul (e, d, 13, 3),
Nodul (f, ~~e~~, 17, 0)]

open = { Nodul (e, b, 13, 7) }

S-a scris algoritmul, deoarece am
găsit soluția de la a la f care are
min : $a \rightarrow b \rightarrow d \rightarrow e \rightarrow f$, cost 17.