```
# preparo i nodi:

for V \in V - \{1\}\}:

V.color = "White";

V. parent = nil;

V. distance = \infty:

# setting rorgente:

Q(V) = enquence e dequence

Q. color = "gray";

Q. parent = \phi;

S. distance = \infty:

Enquence (G, 9);
```

esplorations:

while (G + \$):

x = Dequeue (q);

for all y = Adj (x):

if (y.color == "white"):

y.color = gray"

y. T = x:

y. d = x.d + 1;

Enqueue (y);

x.color = "Black"

```
* Gottografo dei predecesson
   G = (VIT, ETT):
      ET = \ (V.T, V) : VEV \ V.T \ mil }
   Foresta Depth First i cui ardii Duo ETI
 Ardui three :
       back :
 Ardu
        Fw :
 Ardu
        Cross
 Ardy
  0 F9 :
    DF9 (G):
    # preparo i nodi
                          O (V)
    for all
      v.color = white :
                    clu'aino
                             DPS-NATI
   # per ogni nedo
                             0(1)
     for veV:
          if (v="wuite"):
               DAS-VIAT (a,v);
                                       tempe: O(V+E)
 # du'amo DF. VINT:
    DPS_VISIT ( G, V):
         V. Color = " gray";
         V. time = time + 1;
         for [all x = adf (v)]; \Theta(\epsilon)
```

```
If (X. color = "white");
              x. # = V;
               OFS-VIAT (a,x)
      V. color: "Blace"
      V. find = time + 1;
Acy cuc:
for all VEV
    v.col = white
for all vev
        If Cuss white:
             OFS-NNT W)
 DRS-USAT W):
     V.color = "gray";
      v. d = time. to;
     Fr all * e AdJ [v]

( * color = = "white")
                                  else it (x.color; gray)
        rdury (DES_VISIT (W))
                                                 retura falce j
     V. calon: " Blace".
```

V.f= time + s;

tehurn trues