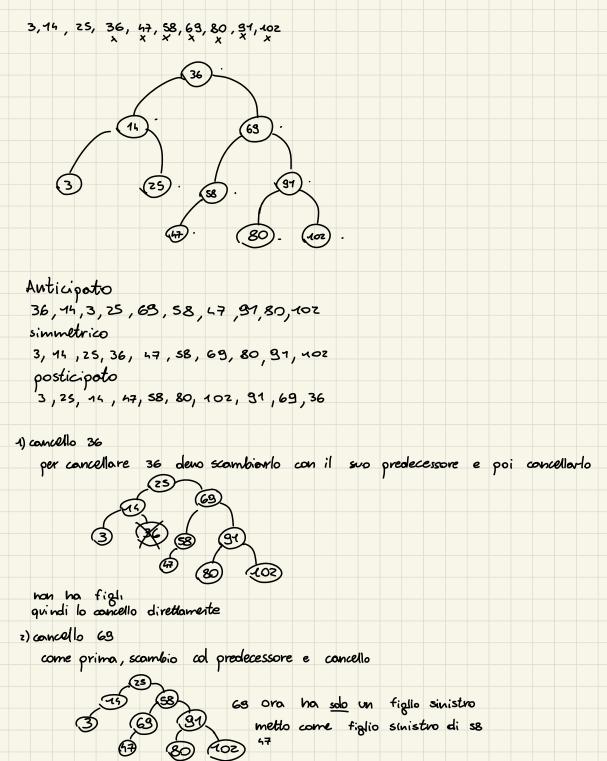


· algo iterativo ·due stock P4 e P2 lunghezza n di dhav ·un carattere UR methere in stack P3 char di P4(prima)e Pz != CAR elgo (P1, P2, P3, CAR) C boolean tumoPr=true c tw while (! stack Empts (P4) OR ! stackEmpts (P2)) } c tw if (! stack (Empts (Pe) AND (turno Pe OR stock Empts (Pz)) { C.tify x=P4. pop ctify if (x = CAR) zc tifz P3. push(x) turnoPa=false c.tu if (! stack(Empts(P2) AND(!turnoP4 OR stackEmpts(P4))} c.tifs y=R. pop  $c \cdot t : f3 : f(3 \neq CAR)$ ZC tif4P3. push(y)

turnoPr=true T(n)= c+3ctu + zc tifa+zc tif3+zctif3+zc tif4 caso migliore ho solo CAR in Pre Pz tifz=o tifn=o tiften lifz=n tw=zn T(n)= c+3c.zn+zcn+zcn= c+-coan = 2(h) coso pegziore ho solo char ≠ car T(n)=c+3cn+zcn+zcn+zcn+zcn tifz=n tim=n tw=n 41cn+c=O(n)tift=n t.f3=n T(n)= 0(n)

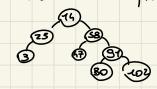
BAAC -> CZBSX XYZA 4) turno Pe BAA
pop C + CAR XYZA C Z) ! turnoPe BAA
pop A = CAR XYZ C 3) !turnoP4 BAA pop = # CAR XS CZ 4) turopy BA pop A = CAR XY 5) turno Py B CZ XS pop A 6) turns P4 LZB ٧× ρορ Β 7)! turno Py Stack Eupty Py CZB3 pop s + CAR 8) stockEmpts Py ... C Z BY X pop X + UR entrambi vvoti esco dal ciclo

2 3 4 5 6 7 8 9 10 11 12 12 14 15 16 50 63 70 60 62 74 (s comincio dall' indice 6 perché é n/z 6) scambio 46 e 74 11, 47, 51, 67, 45, 74, 50, 63, 70, 60, 62, 46 5) passo a indice s, scambio 45 e 62 41, 41, 51, 67, 62, 74, 50, 63, 70, 60, 45, 46 4) passo a indice 4 scambio 67 e 70 11, 41, 51, 70, 62, 74, 50, 63, 67, 60, 45, 46 3) passo a indice 3 scambio 51 e 74 14, 44, 74, 70,62,51,50,63,67,60,45,46 z) passo a indice z scambio 44 e 70 44 , 70, 74 , 44 , 62 , 51 , 50, 63 , 67 , 60 , 45 , 46 scambio 44 e 67 44, 70,74, 67, 67, 51, 50, 63, 41, 60, 45, 46 1) passo a indice 1 scambio 14 e 74 74, 70, 44, 67,62,51,50,63, 44,60,45,46 scambio 14 e 51 74, 70, 51, 67, 67, 14, 50, 63, 44, 60, 45, 46 scambio 44 e 46 74,70,51,67,67,46,50,63,44,60,45,41 questo é un heap

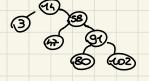




3) concello 25 scambio 25 con il predecessore



zs ha un solo figlio sinistro, metto corre figlio sinistro di 14 3



```
funz (Q1, Q2, Q3, car) {
       boolean turnoQ1 = true
       unile (! aneve Empts (Q1) | 1 ! Quere Empts (Q2)) {
               if (! Queue Empts (Q1)) AND (turno Q1 | I amene Empts (Q2)) {
                   x= deg ve (01)
                   if (x = CAR)
                      Q3. enque(x)
tumoQ1=false
               if (! Queue Empts (Qz )) AND (!turno O+ 11 Queue Empts (Q+)) {
                   y = deque(Qz)
                   if (y = CAR)
                       Q3. engue (4)
tumoQ1=true
               ξ
```

```
pila p ordine decrescente
        ins 6 e 4
   7 5 2 1
                  <6 allora push
     if (x \ge p. top)
         p. push(x)
     6. bray(2)
     while (! stock Empts(p))
           pz. push (app)
           if(p.topex)

ap push(x)

if(p.topex)

push(x)
     3
```

