ESERCIZI SU CODE A PRIORITA

CANCELLA ELEMENTO (A, i)
  if i < 2 H > HEAP-SIZE (A)   ESCI;

CANCELLA A[i]   > heap-size [A] ← heap-size [A] -1
MAX-HEAPIFY (A, i)   % DOPO CANCELLATO L'ELEMENTO, RISTABILIAMO LA
                                 PROPRIETA' DELL' HEAP
A $KEY(i) \leq KEY(parent(i))$

→ SOSTITUISCO A[i] con un figlio
     A[i] ← A[2i]

   CANCELLA A[2i]

ESERCIZIO 1   DOPO AVER CANCELLATO
                                    L'ELEMENTO, RISTABILIAMO LA
DELETE (A, i)   PROPRIETA' DELL'HEAP
  DIM ← A[HEAP-SIZE (A)]
                                         $KEY(i) \leq KEY(parent(i))$
  A[HEAP-SIZE (A)] ← A[i]

  A[i] ← DIM

  HEAP-SIZE (A) ← HEAP-SIZE (A) - 1

  MAX-HEAPIFY (A, i)

  ↓
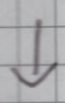
MAX - HEAPIFY (A, i)
  $l \leftarrow left(i)$ $r \leftarrow right(i)$
  if $l \leq$ heap-size [A] AND A[l] > A[i]
     then max ← l
     else max ← i
  if $r \leq$ heap-size (A) AND A[r] > max
         max ← r
  if max ≠ i then
         SCAMBIA A[i] ← A[max]
  → MAX - HEAPIFY (A, max)