

```

algo(T,F,A,h,p,r)
  if (T != NIL)
    q = ricBin(key[T], A, h, p, r)
    if (q < 0)
      algo(sx[T], T, A, h+1, p, r)
      algo(dx[T], T, A, h+1, p, r)
    else
      algo(sx[T], T, A, h+1, p, q)
      algo(dx[T], T, A, h+1, q, r)
      if (h >= 1)
        cancella(T, F)

```

```

ricBin(k, A, p, r)
  if (r > p)
    q = (r - p) / 2
    if (k < A[q])
      return ricBin(k, A, p, q)
    else if (k > A[q])
      return ricBin(k, A, q, r)
    else
      return q
  else
    return -1

```

```

staccaMin(T, F)
  if (T != NIL)
    if (sx[T] != NIL)
      return staccaMin(sx[T], T)
    else //trovato
      if (T = sx[F])
        sx[F] = dx[T]
      else
        dx[F] = dx[T]
  return T

```

```

cancella(T, F)
  nodo = T
  if (sx[T] = NIL)
    if (T = sx[F])
      sx[F] = dx[T]
    else
      dx[F] = dx[T]
  else if (dx[T] = NIL)
    if (T = sx[F])
      sx[F] = sx[T]
    else
      dx[F] = sx[T]
  else
    nodo = staccaMin(dx[T], T)
    key[T] = key[nodo]
  dealloca[nodo]

```