```
strut-
ture
dati
suc-
       çinte
       N \log N +
      o(\log N)

\begin{array}{c}
    n \\
    o(n) \\
    N = \\
    \vdots \\
    \vdots
\end{array}

       \begin{array}{l} \textbf{pitvector} \\ \textbf{bitvector} \\ B[i] \in \{0,1\}, \ \forall i 0 \leq i < n \end{array}
       B[i] \in \{\bot, \top\}, \ \forall \, i0 \leq i < n
(2)
      ran-
dom
dess
Suc-
cinct
Data
Struc-
ture
Li-
brary
(SDSL)
???

\begin{array}{c}
\text{bitvec-}\\
\text{tor}\\o(n)
\end{array}

      egin{array}{l} o(n) \\ bitvector \\ d = \\ d = \\ m \\ klock \\ size \\ inter-leave \\ \end{array}
                                                                    Spazio occupato 64 \left[ \frac{n}{64} + 1 \right]_{64}
                          Variante
                    Plain bitvector
                                                                           \approx n \left(1 + \frac{64}{K}\right)
             Interleaved\ bit vector
       H_0-compressed bitvector
                                                                            \approx \lceil \log nm \rceil
                 Sparse\ bitvector
                                                                      \approx m \left(2 + \log \frac{n}{m}\right)
       rango
B
       \begin{array}{c} i\\bit vec-\\tor \end{array}
       _{B}(i) = \sum B[k], \ \forall \, i0 \leq i < n
       o(n)
       \mathcal{O}(1)
      \begin{array}{c} n \\ rank \\ sam \\ ple \end{array}
                                                                    Bit aggiuntiviComplessità temporale
                          Variante
                                                                                                                                         \mathcal{O}(1) \\ \mathcal{O}(1) 
                   Plain\ bitvector
                                                                            0.0625 \cdot n
                                                                                    128
             Interleaved bitvector
        H_0-compressed bitvector
                                                                                     80
                                                                                                                                       \mathcal{O}(k)
                                                                                                                                 \mathcal{O}\left(\log \frac{n}{m}\right)
                  Sparse\ bit vector
                                                                                     64
```

Bit aggiuntiviComplessità temporale Variante