

The diagram illustrates a linked list structure. At the top, a pointer array p is shown with three entries: $p[1]$, $p[2]$, and $p[3]$, each containing a value n_1 , n_2 , and n_3 respectively. Below this, a horizontal bar represents the list of records. The first record is at index 0 and contains the text: **record**, $x, y : \text{word};$, $visited : \text{boolean}$, and **end;**. The subsequent records are at indices n_1 , n_2 , and n_3 . Arrows indicate the links: from $p[1]$ to the record at n_1 , from $p[2]$ to the record at n_2 , and from $p[3]$ to the record at n_3 . The record at n_3 is shown with a dotted line at its end, indicating it points to a null value. Below the list, three horizontal lines with vertical end caps represent the ranges of indices: line 1 from 0 to n_1 , line 2 from 0 to n_2 , and line 3 from 0 to n_3 .