

Definition of function cnt

```
(defun cnt(i j key a)
  (declare (xargs
            :measure (nfix (+ 1 (- j i))))))
  (if
    (or
      (not (natp i))
      (not (natp j))
    )
    0
    (if
      (> i j)
      0
      (if
        (= i j)
        (if
          (= key (nth j a))
          1
          0
        )
        (if
          (= key (nth j a))
          (+ 1 (cnt i (- j 1) key a))
          (cnt i (- j 1) key a)
        )
      )
    )
  )
)
```