



Algorithmen & Datenstrukturen

Wintersemester 2002/2003

Handout 2

obsolet 1999

Handout 2: Induktion und Invarianten

Ausgabetermin: obsolet 1999

```
Partition(A,p,r)                                /* p <= r          */
  x := A[p];
  i := p-1;
  j := r+1;

  while true                                    /* Invariante I_2 */
  do
    repeat j := j-1
      until A[j] <= x;
    repeat i := i+1
      until A[i] >= x;
    if i < j
      then exchange A[i] <-> A[j]
      else return j;
  od;

/* Invariante I_1 */
/* Invariante I_2 */
/* j <= i          */
```
