

Algoritma Struktur Data

Latihan

Data = { 23, 35, 7, 14, 67 }

Penyelesaian kasus pengurutan decending

a) Bubble Sort

{ 23, 35, 7, 14, 67 }	23 > 35 → swap
{ 35, 23, 7, 14, 67 }	23 < 7 → tidak swap
{ 35, 23, 7, 14, 67 }	7 > 14 → swap
{ 35, 23, 14, 7, 67 }	7 > 67 → swap
{ 35, 23, 14, 67, 7 }	35 < 23 → tidak swap
{ 35, 23, 14, 67, 7 }	23 < 14 → tidak swap
{ 35, 23, 14, 67, 7 }	14 > 67 → swap
{ 35, 23, 67, 14, 7 }	14 < 7 → tidak swap
{ 35, 23, 67, 14, 7 }	35 < 23 → tidak swap
{ 35, 23, 67, 14, 7 }	23 > 67 → swap
{ 35, 67, 23, 14, 7 }	23 < 14 → tidak swap
{ 35, 67, 23, 14, 7 }	14 < 7 → tidak swap
{ 35, 67, 23, 14, 7 }	35 > 67 → swap
{ 67, 35, 23, 14, 7 }	

b.) Selection Sort

{ 23, 35, 7, 14, 67 }	23 > 67 → swap
{ 67, 35, 7, 14, 23 }	35 > 35 → tidak swap
{ 67, 35, 7, 14, 23 }	23 < 7 → swap
{ 67, 35, 23, 14, 7 }	14 < 14 → tidak swap
{ 67, 35, 23, 14, 7 }	7 > 7 → tidak swap
{ 67, 35, 23, 14, 7 }	

c.) Insertion Sort

$\{23, 35, 7, 14, 67\}$	$23 > 35 \rightarrow \text{swap}$
$\{35, 23, 7, 14, 67\}$	$7 > 35 \rightarrow \text{tidak swap}$
$\{35, 23, 7, 14, 67\}$	$7 > 23 \rightarrow \text{tidak swap}$
$\{35, 23, 7, 14, 67\}$	$14 < 35 \rightarrow \text{tidak swap}$
$\{35, 23, 7, 14, 67\}$	$14 < 23 \rightarrow \text{tidak swap}$
$\{35, 23, 7, 14, 67\}$	$14 < 7 \rightarrow \text{swap}$
$\{35, 23, 14, 7, 67\}$	$67 < 35 \rightarrow \text{swap}$
$\{67, 35, 23, 14, 7\}$	