
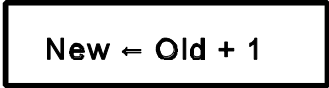
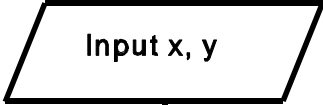
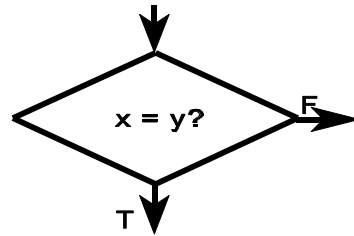


Flowchart Symbols and Pseudocode (Fortran 90 Version)
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March 30, 1999

Operation	Key Flowchart Symbol	Pseudocode	Fortran 90 Example
Beginning/End of Algorithm		Start Replay	<code>program Replay</code>
Process/Assignment		<code>New←Old + 1</code>	<code>New = Old + 1</code>
Input/Output		Input x, y Output z	<code>read(*,*) x, y</code> <code>write(unit,form) z</code>

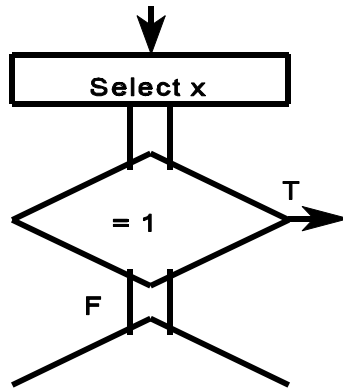
Selection



```
if x = y then
...
next step
```

```
if (x == y) then
...
else
...
end if
```

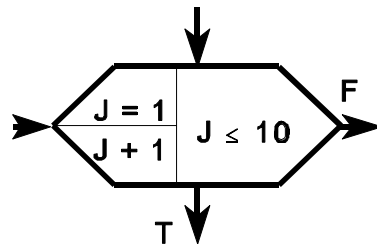
Multiple Selection



```
select on x
case 1:
...
case 2:
...
default case:
...
next step
```

```
select case (x)
case (1)
...
case (2)
...
case default
...
end select
```

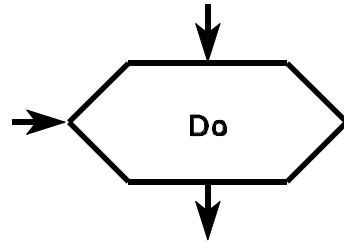
Counter Controlled Loop



```
for j = 1, 10
...
next step
```

```
do j = 1, 10
...
end do
```

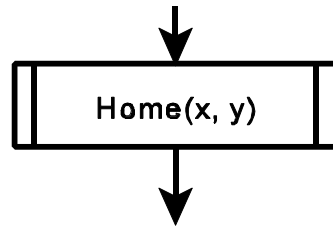
General Repetition



```
do
  ...
  if expr exit
  ...
  next step
```

```
do
  ...
  if (expr) exit
  ...
end do
```

Sub-algorithm Call



```
call Home(x,y)
```

```
call Home(x,y)
```

Notes and Comments:

Indentation is used to show structure in pseudocode.

next step means the next step in the algorithm (can be any statement).

expr means any logical expression.

uint means any valid output unit value (integer).

form means any valid format expression (character).

if-then-else and *select-case* constructs can be drawn horizontally or vertically in flowcharts.

Indicate comments in pseudocode and flowcharts using an italic font or underlining if hand written.