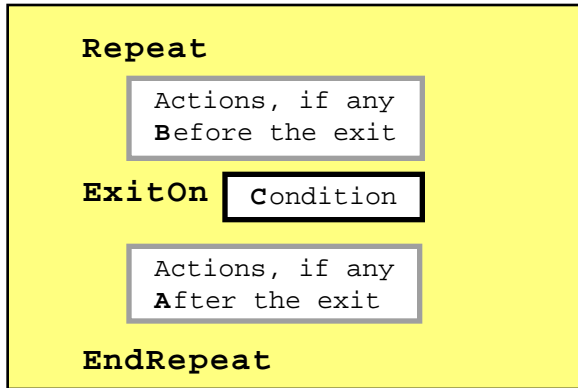


Examples of the Repeat form Outline (or skeleton)



```

-- Remainder when x divides y
Set rem = y -- numerator
Set den = x -- denominator

Repeat
ExitOn (rem < den)
  Set rem = rem - den
EndRepeat

Output "The remainder is "
Outputln rem
  
```

```

-- Factorial of n: increasing
Set fact = 1
Set index = 1

Repeat
ExitOn (index > n)
  Set fact = fact * index
  Inc index by 1
EndRepeat

Output "Factorial is "
Outputln fact
  
```

```

-- Factorial of n: decreasing
Set fact = 1
Set index = n

Repeat
ExitOn (index == 1)
  Set fact = fact * index
  Dec index by 1
EndRepeat

Output "Factorial is "
Outputln fact
  
```

```

-- Enter proper (positive) input
Set YearNow = 1999

Repeat
  Output "Enter your age "
  Input age
  Outputln age
ExitOn (age >= 0)
  Outputln "Error in age "
EndRepeat

Output "You were born in "
Outputln (YearNow - age)
  
```

```

-- Compound Growth Table
Set amount = 1.0
Set rate = 0.09
Set time = 1

Repeat
  Set growth = amount * rate
  Set amount = amount + growth
  Output IntToStr (time) + " "
  Outputln amount
  Inc time by 1
ExitOn (time == 9)
EndRepeat
  
```

```

-- Average many real values
-- many is a given (input) int
Set sum = 0.0 -- real value
Set num = 0 -- int count

Repeat
  Output "Enter value "
  Input value
  Outputln value
  Set sum = sum + value -- Inc
  Inc num by 1
ExitOn (num == many)
EndRepeat

Output "The mean is "
Outputln sum / IntToReal (num)
  
```

```

-- Average many real values
-- ending with negative terminator
Set sum = 0.0 -- real value
Set num = 0 -- int count

Repeat
  Output "Enter value "
  Input value
ExitOn (value < 0.0)
  Outputln value
  Set sum = sum + value -- Inc
  Inc num by 1
EndRepeat

Output "The mean is "
Outputln sum / IntToReal (num)
  
```