```
                    START

                    ↓

                  sum = 0

                    ↓

               Get a value  ←──────────┐
                                       │
                    ↓                  │
                                       │
               Read the value          │
                                       │
                    ↓                  │
                                       │
         if value = odd value  ──True──→  reject the value
                                       │        │
                    else               │        │
                    ↓                  │        │
                                       │        │
               Accept the value        │        │
                                       │        │
                    ↓                  │        │
                                       │        │
              sum = sum+value           │        │
                                       │        │
                    ↓                  │        │
                                       │        │
          Go to step 3 to get  ────────┘        │
             the next value   ←─────────────────┘

                    ↓

          Get the final output sum

                    ↓

                    END
```

1. Design an algorithm and the corresponding flowchart for finding the sum of the numbers 2, 4, 6, 8, …, n

start sum = 0
read value
 if the value = odd value, reject the value else,
accept the value sum = sum + value
 go to step 3 to get the next value
output sum
stop

 2. Write an algorithm to read 100 numbers and then display the sum.
 start sum = 0
read value
 sum = sum + value
repeat process from step 3 99 times
 output sum
 stop

3. Write an algorithm to read two numbers then display the largest.

start
yield n1
yield n2
read n1
 read n2
if n1>n2, display n1 as the largest number if not, display n2 as the largest number
output is the largest number
 stop

4. Write an algorithm to read two numbers then display the smallest

start
yield n1
 yield n2
read n1
read n2
 if n1<n2, display n1 as the smallest number if not, display n2 as the smallest number
output is the smallest number
stop

5. Write an algorithm to read three numbers then display the largest.

start
yield n1
yield n2
yield n3
read n1
read n2
read n3
 if n1>n2 and n1>n3, display n1 as the largest number
 if n2>n1 and n2>n3, display n2 as the largest number
 if n3>n2 and n3>n2, display n3 as the largest number output largest number
stop

6. Write an algorithm to read 100 numbers then display the largest.

start
yield
value read
value set 1st value = max
 read nth value
 if nth value > max
set nth value > max
 repeat process from step 2 99 times
output "read 100 numbers then display the largest"
 stop