Even and Odd separation in an Array

Algorithm :

Step ①: Start

Step ②: let i = 0, ec = 0, oc = 0, limit; Declare array **arr, even, odd**

Step ③: Input ← limit;

--- Read Array Element One by One ---

Step ④: Is (i < limit) then go to step ⑤ otherwise go to step ⑦

Step ⑤: Input ← Elements of array one by one.

Step ⑥: i ← i + 1, then go to step ④

--- Display Array Elements One by One ---

Step ⑦: i = 0 (Resetting i for the next loop)

Step ⑧: Is (i < limit) then go to step ⑨ otherwise go to step ⑪

Step ⑨: Display ← Elements of array one by one.

Step ⑩: i ← i + 1, then go to step ⑧

--- Even odd Array element Sepration ---

Step ⑪: i = 0 (Resetting i for the next loop)

Step ⑫: Is (i < limit) then go to step ⑬ otherwise go to step ⑲

Step ⑬: Is (arr[i] % 2 == 0) then go to step ⑭ otherwise go to step ⑯

Step ⑭: even[ec] = arr[i];

Step ⑮: ec ← ec + 1; then go to step ⑱ (Jump to skip odd part)

Step ⑯: odd[oc] = arr[i];

Step ⑰: oc ← oc + 1;

Step ⑱: i ← i + 1, then go to step ⑫

-- Even Array element display One by One ---

Step ⑲: i = 0; (Resetting i for the next loop)

Step ⑳: Is (i < ec) then go to step ㉑ otherwise go to step ㉓

Step ㉑: Display ← Elements of even array one by one

Step ㉒: i ← i + 1, then go to step ⑳

-- Odd Array element display One by One ---

Step ㉓: i = 0; (Resetting i for the next loop)

Step ㉔: Is (i < oc) then go to step ㉕ otherwise go to step ㉗

Step ㉕: Display ← Elements of odd array one by one

Step ㉖: i ← i + 1, then go to step ㉔

Step ㉗: Stop