```
“------A------”
| a1 a2 s1 s2 s3 oddSum|
oddSum := 0.                                                    "Initialize oddSum to zero"
a1 := OrderedCollection new: 100.        "Part 1: declare a1 and a2 as ordered collections of size 100"
a2 := OrderedCollection new: 100.
s1 := SortedCollection new: 100.         "Part 2: declare s1, s2, s3 as sorted collections of size 100"
s2 := SortedCollection new: 100.
s3 := SortedCollection new: 100.

"Part 3: Intialize a1 to the values indicated in the assignment"
a1 := #(8  1  2  3  4  5  77  99  33  10  11  22  33  44  55  66  7  2  3  4  7  8  0).

"Part 4: take the last ten indexes of a1, and check to see if they are odd. If so, add their value to oddSum and put
them in OrderedCollection a2"
a1 size - 9 to: a1 size  do: [:j| ( (a1 at: j) odd) ifTrue:[a2 add: (a1 at: j). oddSum := oddSum + (a1 at: j)]].


s1 addAll: a1.              "Part 5: Take all elements and put them in ascending order into s1"

s2 := s1 reversed.          "Part 6: Take all elements in a1 and put them in descending order in s2"

"Part 7: Sort in ascending order the ith component of s1 with the ith component of s2 and put in s3"
1 to: s1 size do:[:i| s3 add: (s2 at: i) *(s1 at: i)].


Transcript clear.
Transcript show: a1;cr.
Transcript show: a2;cr.
Transcript show: s1;cr.
Transcript show: s2;cr.
Transcript show: s3;cr.
Transcript show: oddSum;cr.


"------B------"

|A B C sum N|
N :=2.
A := Matrix new: N element: 3.          "Declare Matrices A and B to be of size N X N"
B := Matrix new: N element: 3.
sum := 0.                               "Initialize sum to 0"

C := B preMultiplyByMatrix: A.                  "Part i: Computer the matrix A X B"

"Part ii: sum the elements of C, column order, and put them into sum"
1 to: C columnCount do:[:i| 1 to: C rowCount do:[:j| sum := sum + (C at:i at:j)]].

Transcript clear.
Transcript show: A;cr.
Transcript show: B;cr.
Transcript show: C;cr.
Transcript show: sum;cr.
```