
```

% ChemE 7770 PS3 #2 Check Balance
%bound=xlsread('SMatrix.xlsx','S','H2:V19');
%Z=transpose(Element)*bound

S=xlsread('SMatrix.xlsx','S','B2:V19');
Element=xlsread('SMatrix.xlsx','Elements');
Rxn=xlsread('SMatrix.xlsx','S','B2:G19'); %checek balance on the 6 rxn
X=transpose(Element)*Rxn; %Inside the box
Y=transpose(Element)*S; % Outside the box
display(X);
display(Y);
% Internal reactions are balanced.

```

X =

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

Y =

Columns 1 through 13

0	0	0	0	0	0	1	4	-4	-1	10
-10	0									
0	0	0	0	0	0	4	7	-4	-4	16
-14	-4									
0	0	0	0	0	0	1	1	0	-2	5
-5	0									
0	0	0	0	0	0	5	4	-4	-1	13
-7	-7									
0	0	0	0	0	0	1	0	0	0	3
-1	-2									
0	0	0	0	0	0	0	0	0	0	0
0	0									

Columns 14 through 21

0	21	0	0	0	-21	0	0
-3	30	1	0	0	-29	2	-2
0	7	0	0	-1	-7	0	0
-4	17	0	2	-1	-17	1	-1
-1	3	0	0	0	-3	0	0
0	0	0	0	0	0	0	0

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