Set A solution:

| def calculate\_net\_spend(M, n):    in\_weight = np.zeros(n)  out\_weight = np.zeros(n)   for i in range(n):  for j in range(n):  out\_weight[i] += M[i, j]   in\_weight[j] += M[i, j]    net\_spend = out\_weight - in\_weight  return net\_spend |
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Rubric:

| Portion | Grade |
| --- | --- |
| Calculates sum of incoming weights correctly | 5 |
| Calculates sum of outgoing weights correctly | 5 |
| Subtracts corresponding incoming weight from outgoing weight | 5 |

Set B solution:

| def calculate\_net\_income(M, n):    in\_weight = np.zeros(n)  out\_weight = np.zeros(n)   for i in range(n):  for j in range(n):  out\_weight[i] += M[i, j]   in\_weight[j] += M[i, j]    net\_income = in\_weight - out\_weight  return net\_income |
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|  |

Rubric:

| Portion | Grade |
| --- | --- |
| Calculates sum of incoming weights correctly | 5 |
| Calculates sum of outgoing weights correctly | 5 |
| Subtracts corresponding outgoing weight from incoming weight | 5 |