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```
%We can use left division to solve this system of equations. However,  
our  
%solution comes up as NaN, meaning there is no solution. Having one  
value  
%of f would provide enough information to solve for f1, f2, f3, and  
f4.
```

```
a=[1 1 0 0; 0 0 1 1; 0 1 1 0; 1 0 0 1];  
b=[500; 800; 1000; 300];  
solution=a\b
```

```
Warning: Matrix is singular to working precision.
```

```
solution =
```

```
NaN
```

```
NaN
```

```
NaN
```

```
NaN
```

```
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```