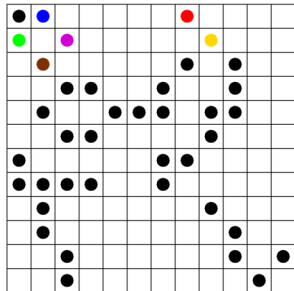


## COO



Elements Array	<table><tr><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>...</td></tr></table>	●	●	●	●	●	●	●	●	...
●	●	●	●	●	●	●	●	...		
Col idx array	<table><tr><td>1</td><td>2</td><td>8</td><td>1</td><td>3</td><td>9</td><td>2</td><td>8</td><td>...</td></tr></table>	1	2	8	1	3	9	2	8	...
1	2	8	1	3	9	2	8	...		
Row idx array	<table><tr><td>1</td><td>1</td><td>1</td><td>2</td><td>2</td><td>2</td><td>3</td><td>3</td><td>...</td></tr></table>	1	1	1	2	2	2	3	3	...
1	1	1	2	2	2	3	3	...		

```
do i=1,nz
  ir = ia(i)
  jc = ja(i)
  y(ir) = y(ir) + as(i)*x(jc)
enddo
```