```
A = SparseArray[
  {
    {1, 1} → r[{1, 2}, {4, 5}], {1, 2} → r[{3}, {6}],
    {2, 1} → r[{7, 8}], {2, 2} → r[{9}]
  },
  {2, 2}
 ]
```

SparseArray[<4>, {2, 2}]

```
A // MatrixForm
```

$$\begin{pmatrix} r[\{1, 2\}, \{4, 5\}] & r[\{3\}, \{6\}] \\ r[\{7, 8\}] & r[\{9\}] \end{pmatrix}$$

```
SparseArray[{{1, 1} → zoom[7], {2, 2} → 2, {3, 3} → 3, {1, 3} → 4}] // MatrixForm
```

$$\begin{pmatrix} zoom[7] & 0 & 4 \\ 0 & 2 & 0 \\ 0 & 0 & 3 \end{pmatrix}$$

```
Flatten[A]
```

SparseArray[<4>, {4}]

```
Flatten[A] // Normal
```

{r[{1, 2}, {4, 5}], r[{3}, {6}], r[{7, 8}], r[{9}]}

```
Delete[A, 1] // Normal
```

{{r[{7, 8}], r[{9}]}}

```
Drop[A, {1}] // Normal
```

{{r[{7, 8}], r[{9}]}}

```
Drop[A, {}, {2}] // Normal
```

{{r[{1, 2}, {4, 5}]}, {r[{7, 8}]}}

```
A[[2, 2]] = 0
```

0

```
A // MatrixForm
```

$$\begin{pmatrix} r[\{1, 2\}, \{4, 5\}] & r[\{3\}, \{6\}] \\ r[\{7, 8\}] & 0 \end{pmatrix}$$

```
A // ArrayRules
```

{{1, 1} → r[{1, 2}, {4, 5}], {1, 2} → r[{3}, {6}], {2, 1} → r[{7, 8}], {_, _} → 0}