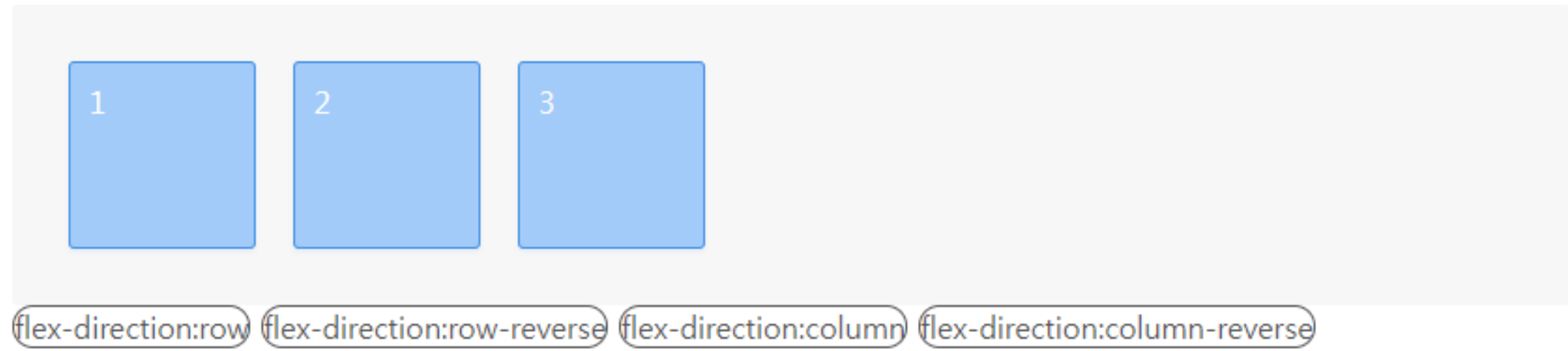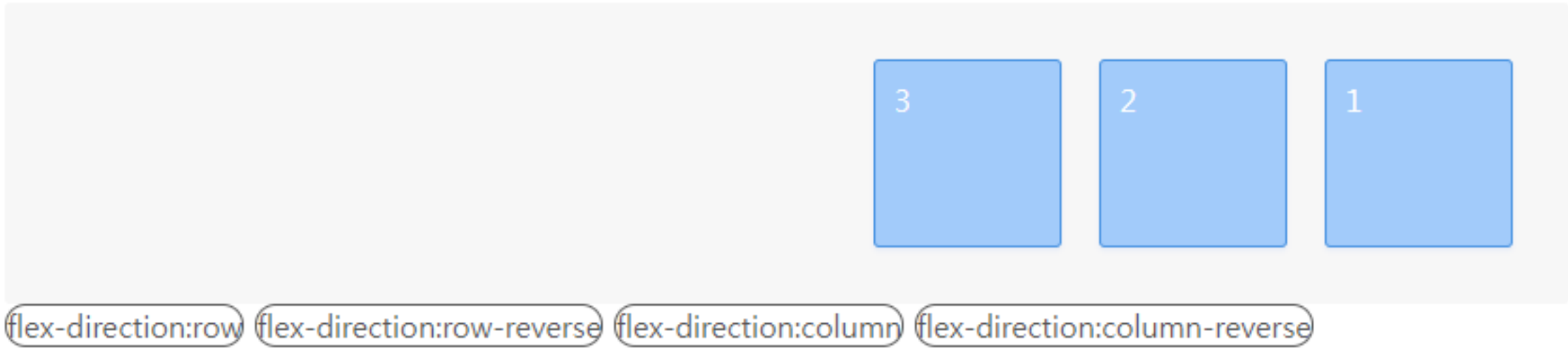# FLEX

flex 관련 속성

속성	설명
align-content	align-content 속성은 콘텐츠의 상하관계 정렬 상태를 정의합니다.
align-items	align-items 속성은 콘텐츠 내부의 정렬 상태를 정의합니다.
align-self	align-self 속성은 콘텐츠의 정렬 상태를 정의합니다.
flex	flex 속성은 콘텐츠의 성질을 flex로 정의합니다.
flex-basis	flex-basis 속성은 요소의 기본 단위를 정의합니다.
flex-direction	flex-direction 속성은 요소의 정렬 방향을 정의합니다.
flex-flow	flex-flow 속성은 요소의 정렬 방향과 줄 속성을 설정합니다.
flex-grow	flex-grow 속성은 요소의 크기를 숫자를 통해 정의합니다.
flex-shrink	flex-shrink 속성은 요소의 크기를 숫자를 통해 줄여줍니다.
flex-wrap	flex-wrap 속성은 요소의 줄 속성을 설정합니다.
justify-content	justify-content 속성은 콘텐츠의 좌우 관계 정렬 상태를 정의합니다.
order	order 속성은 flex 콘텐츠의 순서를 정의합니다.

flex-direction : 방향 설정

```
1  /* flex21 */
2  .flex21{
3      display: flex;
4      flex-direction:row;
5  }
6  .item21{width: 100px; margin: 10px;}
```

flex-direction:row flex-direction:row-reverse flex-direction:column flex-direction:column-reverse

flex-direction : row

flex-direction:row flex-direction:row-reverse flex-direction:column flex-direction:column-reverse

flex-direction : row-reverse

flex-direction:row flex-direction:row-reverse flex-direction:column flex-direction:column-reverse

flex-direction : column

flex-direction:row flex-direction:row-reverse flex-direction:column flex-direction:column-reverse

flex-direction : column-reverse

flex-wrap: 줄넘기 처리 설정

```
1  /* flex21 */
2  .flex21{
3      display: flex;
4      flex-wrap:nowrap
5  }
6  .item21{
7  width: 300px; margin: 10px;
8  }
```


flex-wrap: nowrap   flex-wrap: wrap   flex-wrap: wrap-reverse

flex-wrap : nowrap

flex-wrap: nowrap   flex-wrap: wrap   flex-wrap: wrap-reverse

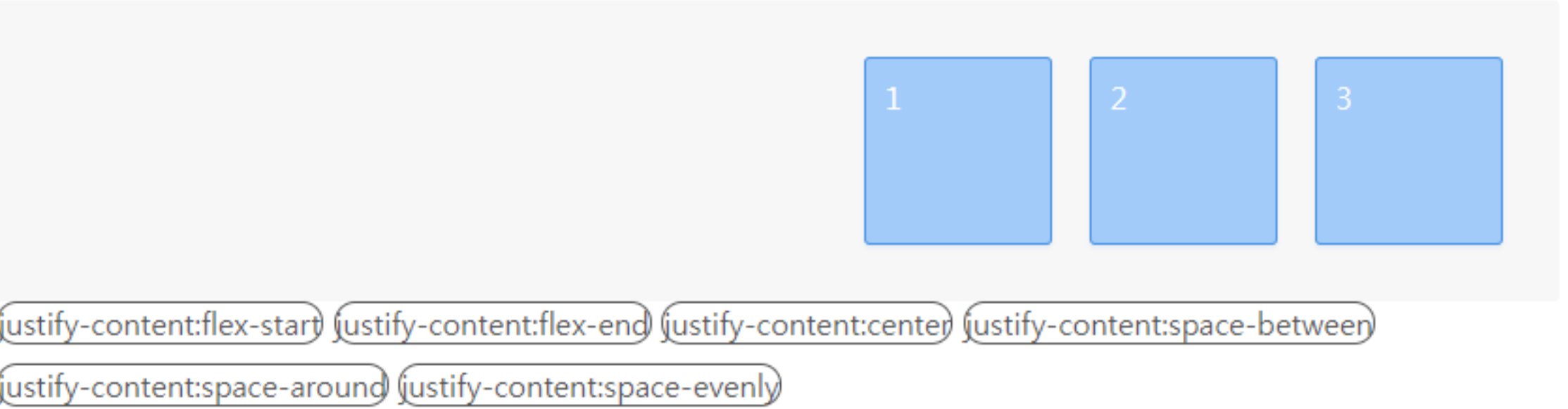## flex-wrap : wrap-reverse

flex-wrap: nowrap   flex-wrap: wrap   flex-wrap: wrap-reverse

flex-wrap : wrap

justify-content : 가로축 방향 설정

```
1   .flex21{
2       display: flex;
3       justify-content:flex-start ;     /* 기본값 */
4       /* justify-content:flex-start
5       justify-content:flex-end
6       justify-content:center
7       justify-content:space-between
8       justify-content:space-around
9       justify-content:space-evenly */
10  }
11  .item21{
12      width: 100px; margin: 10px;
13  }
```
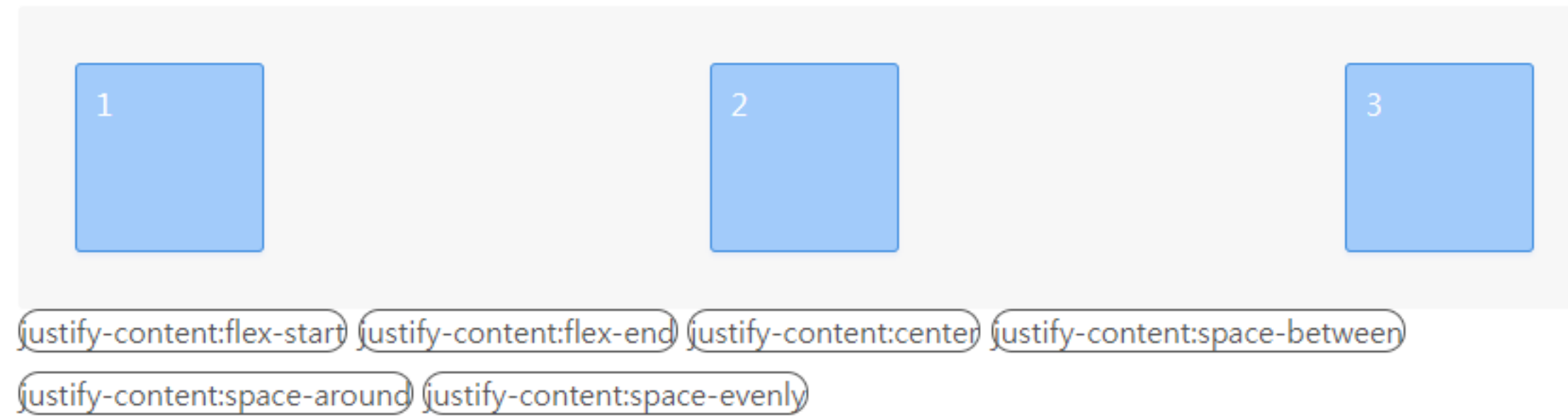
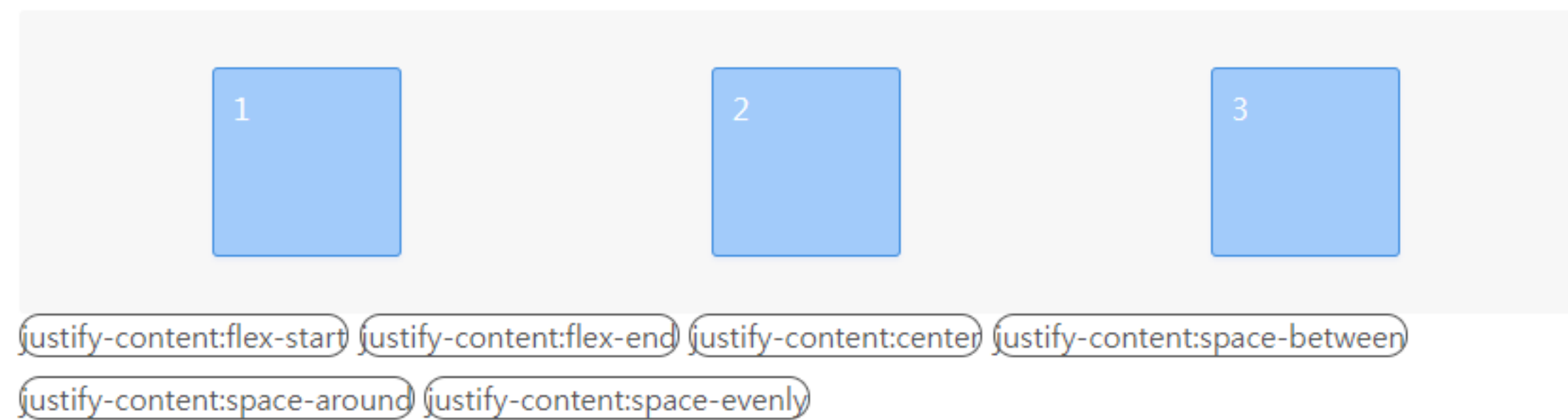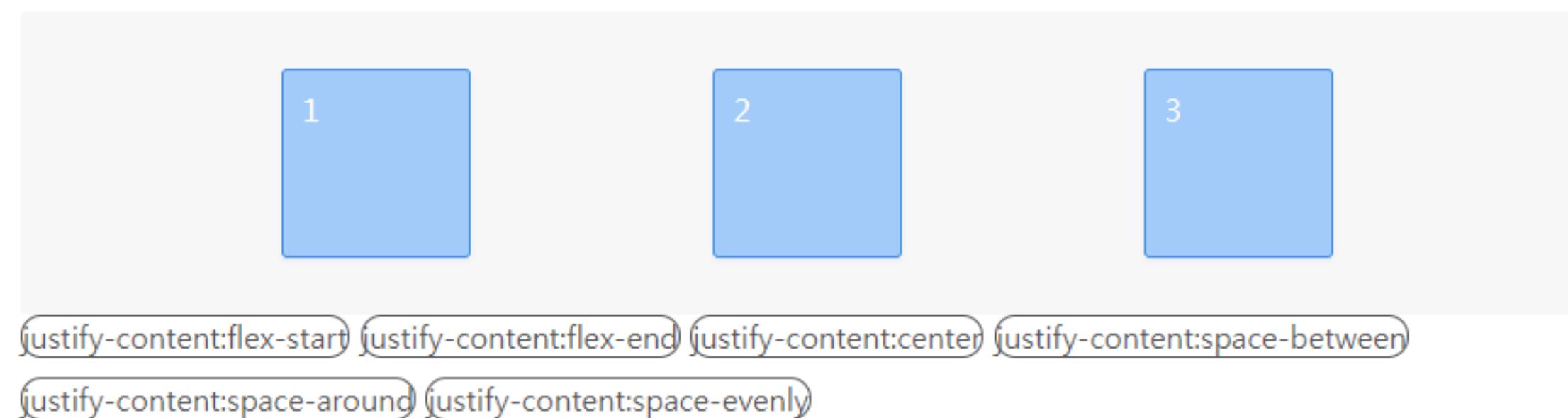justify-content:flex-start justify-content:flex-end justify-content:center justify-content:space-between
justify-content:space-around justify-content:space-evenly

justify-content:flex-end

justify-content:flex-start justify-content:flex-end justify-content:center justify-content:space-between
justify-content:space-around justify-content:space-evenly

justify-content:flex-start

justify-content:flex-start justify-content:flex-end justify-content:center justify-content:space-between
justify-content:space-around justify-content:space-evenly

justify-content:center

justify-content:space-between

justify-content:flex-start justify-content:flex-end justify-content:center justify-content:space-between
justify-content:space-around justify-content:space-evenly

justify-content:space-around

justify-content:flex-start justify-content:flex-end justify-content:center justify-content:space-between
justify-content:space-around justify-content:space-evenly

justify-content:space-evenly

justify-content:flex-start justify-content:flex-end justify-content:center justify-content:space-between
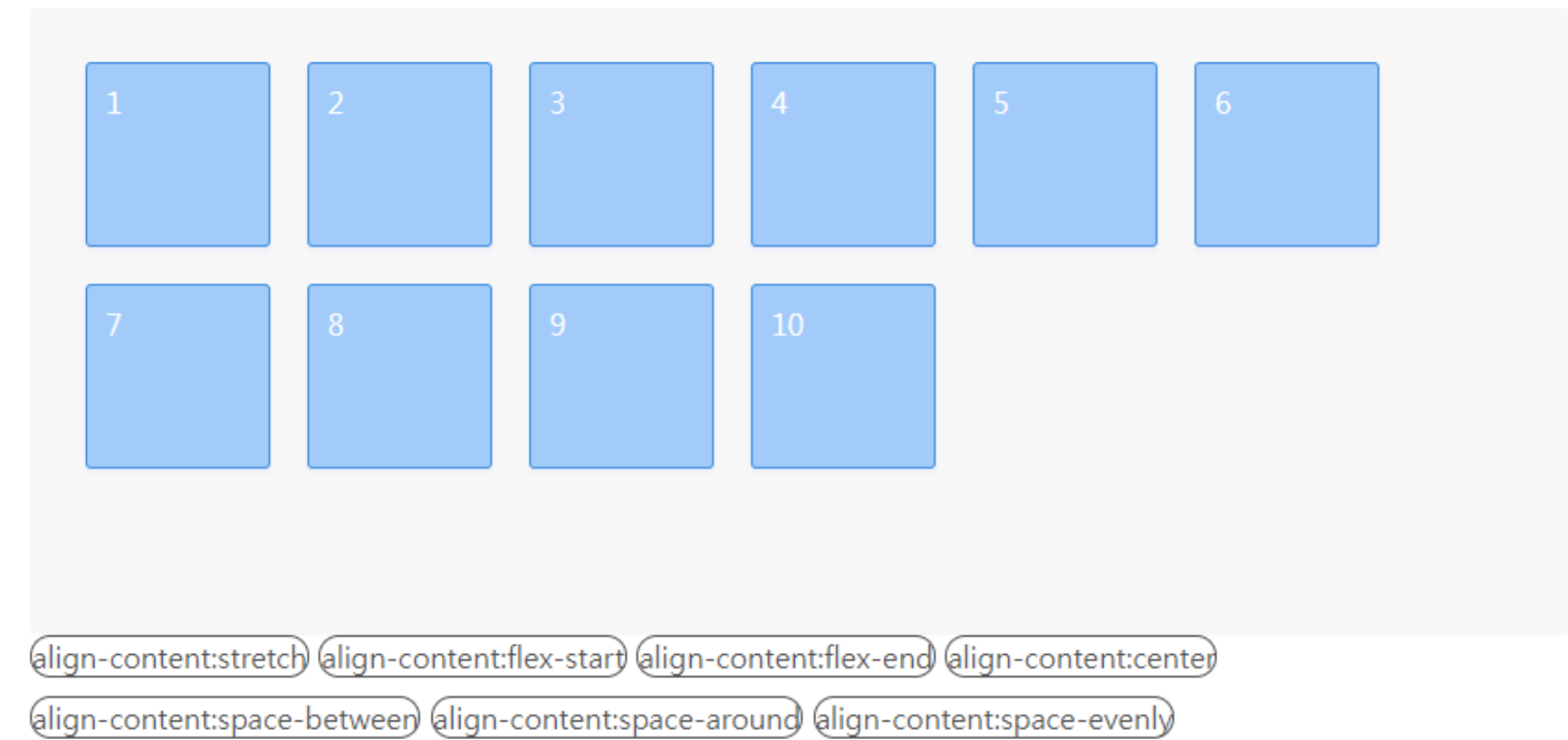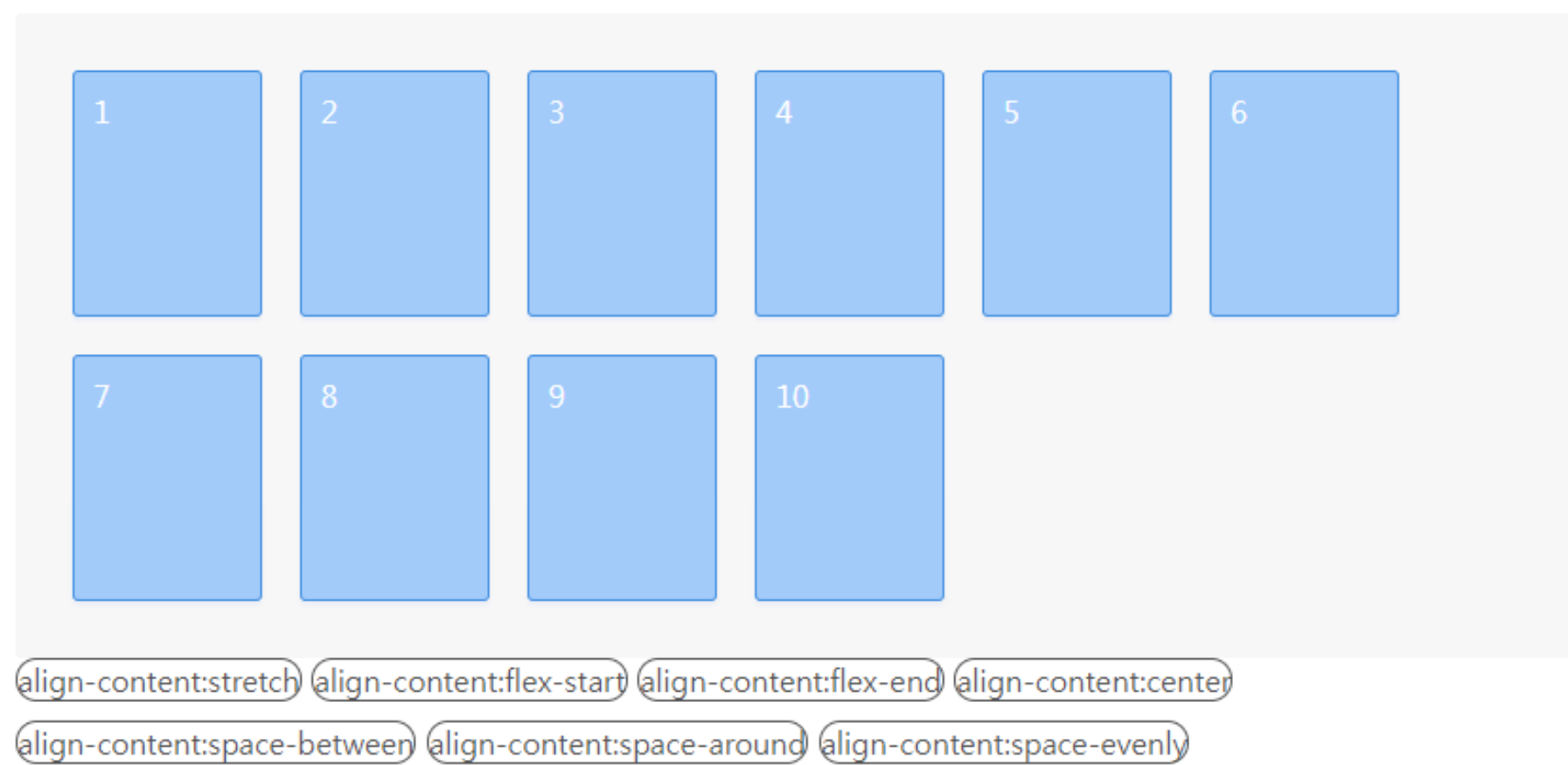justify-content:space-around justify-content:space-evenly

align-content:세로축 방향 설정

```
1    .flex21{
2        display: flex;
3        flex-wrap: wrap;
4        height: 300px;
5        align-content:stretch;    /* 기본값 */
6        /* align-content:flex-start
7        align-content:flex-end
8        align-content:center
9        align-content:space-between
10       align-content:space-around
11       align-content:space-evenly */
12   }
13   .item21{
14       width: 100px; margin: 10px;
15   }
```
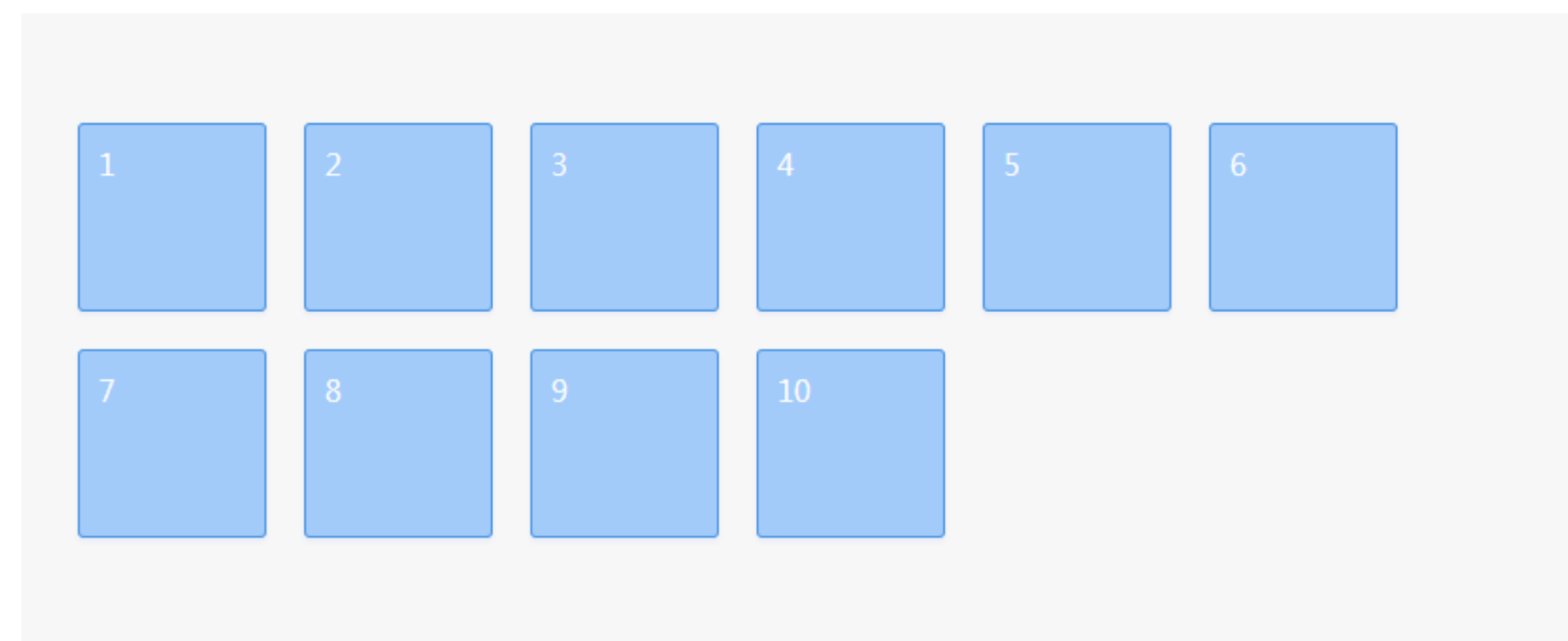

align-content:stretch align-content:flex-start align-content:flex-end align-content:center
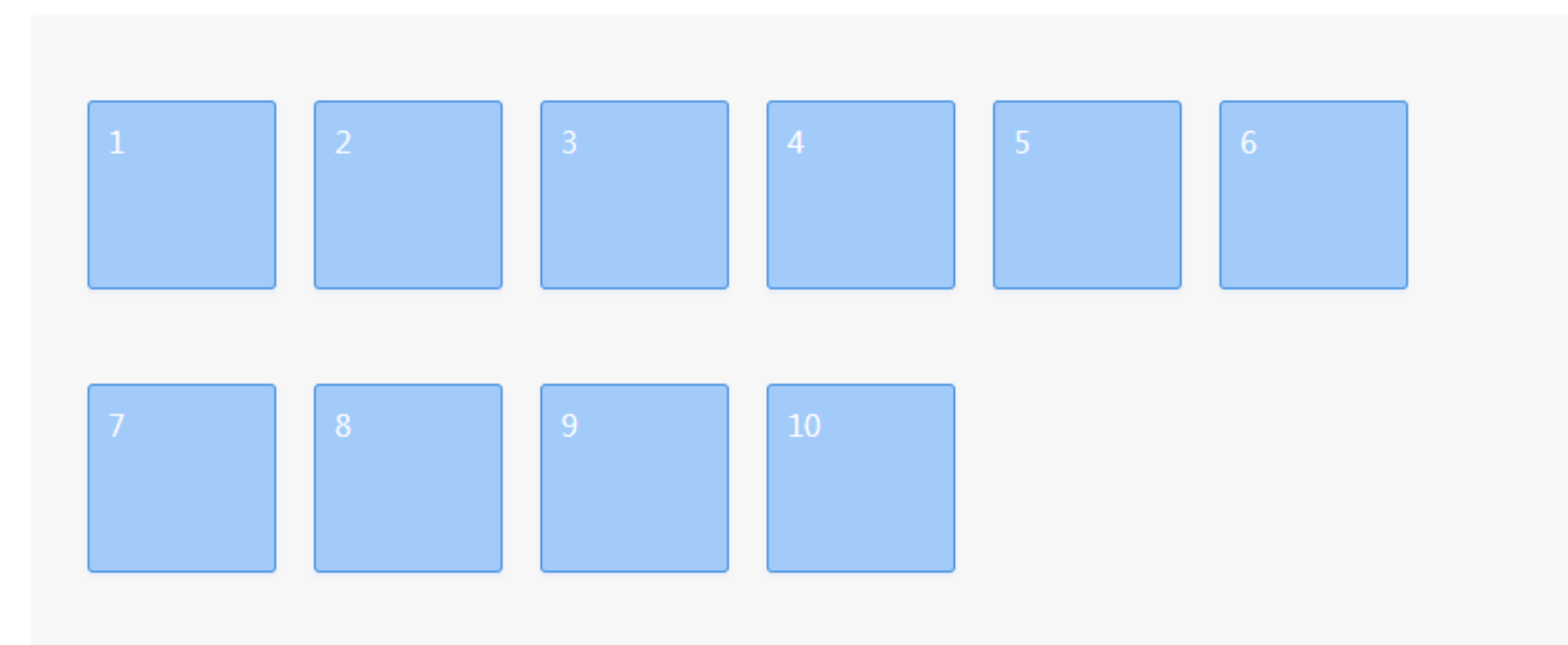align-content:space-between align-content:space-around align-content:space-evenly

align-content:flex-start

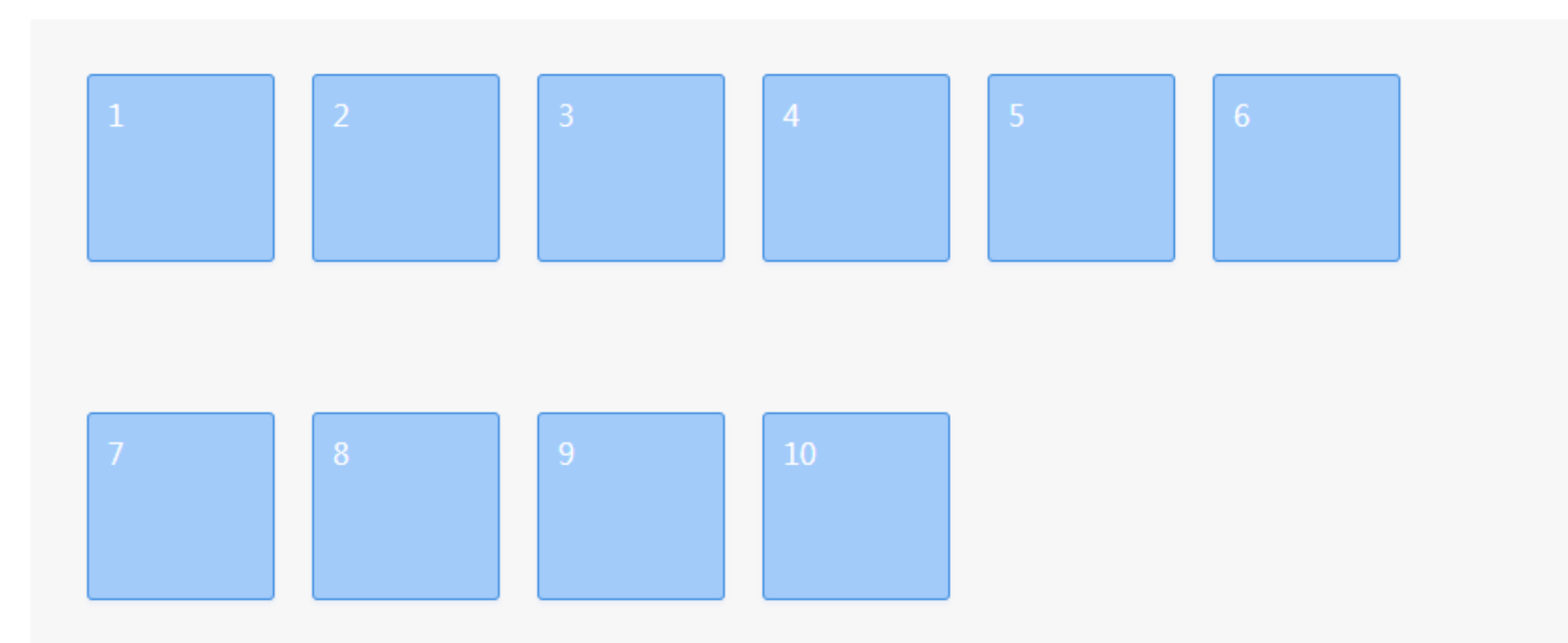
align-content:stretch align-content:flex-start align-content:flex-end align-content:center
align-content:space-between align-content:space-around align-content:space-evenly

align-content:stretch

align-content:stretch align-content:flex-start align-content:flex-end align-content:center
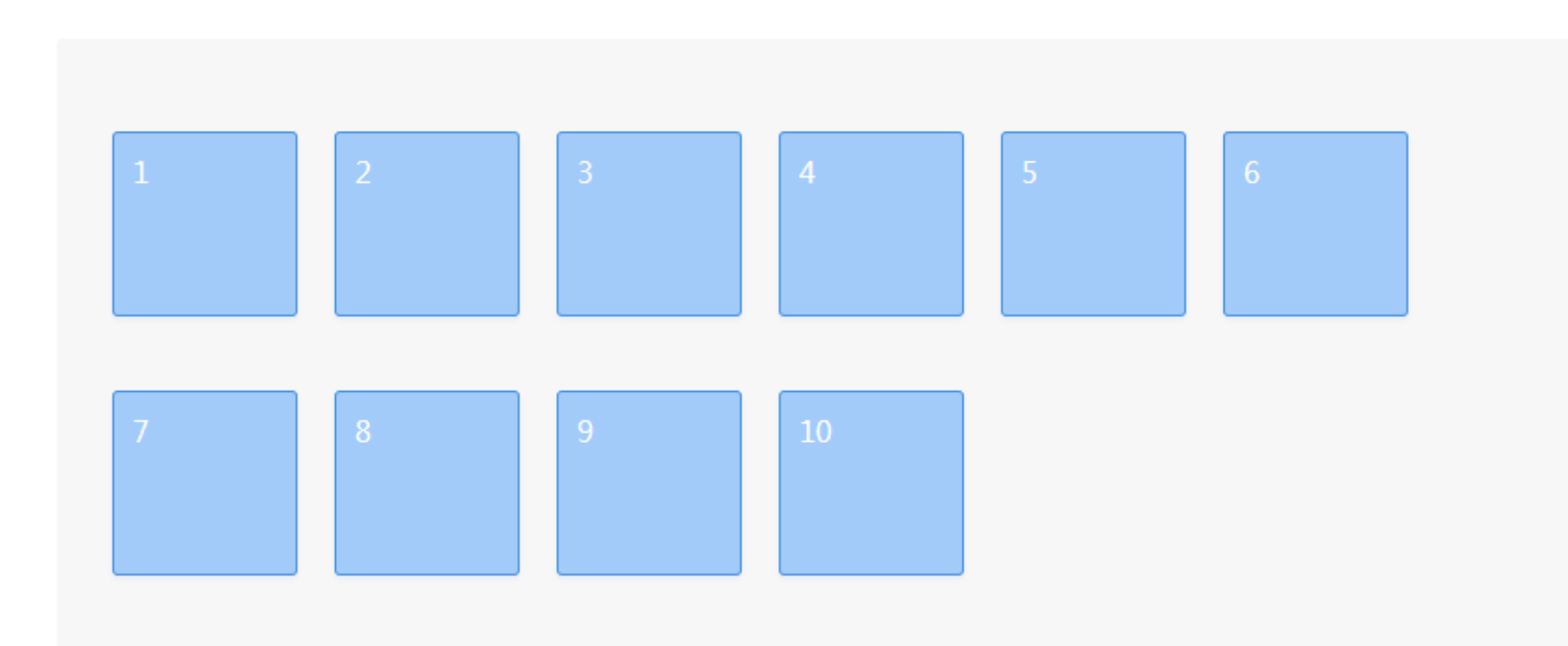align-content:space-between align-content:space-around align-content:space-evenly

align-content:flex-end

align-content:stretch align-content:flex-start align-content:flex-end align-content:center
align-content:space-between align-content:space-around align-content:space-evenly

align-content:center   align-content:space-around

align-content:stretch align-content:flex-start align-content:flex-end align-content:center
align-content:space-between align-content:space-around align-content:space-evenly

align-content:space-between   align-content:space-evenly

flex

flex는 flex-gorw, flex-shrink, flex-basis를 한번에 쓸 수 있는 속기형 작성법입니다.

flex:1;

/* flex-gorw:1, flex-shrink:1, flex-basis:0% */

flex:100px;

/* flex-gorw:1, flex-shrink:1, flex-basis:100px */

flex:1 100px;

/* flex-gorw:1, flex-shrink:1, flex-basis:100px */

flex: 1 1 auto;

/* flex-gorw:1, flex-shrink:1, flex-basis:auto */

```
1    .flex21{
2        display: flex;
3    }
4    .item21{
5        flex-grow: 1;
6        flex-shrink: 1;
7        flex-basis: 0;
8        margin: 10px;
9    }
10
11
```


flex:1 1 0 | flex:2 | flex:200px | flex:2 200px | flex:1 1 150px

flex:1 1 0

flex:1 1 0 | flex:2 | flex:200px | flex:2 200px | flex:1 1 150px

flex:2

flex:1 1 0 | flex:2 | flex:200px | flex:2 200px | flex:1 1 150px

flex:200px

flex:1 1 0 | flex:2 | flex:200px | flex:2 200px | flex:1 1 150px
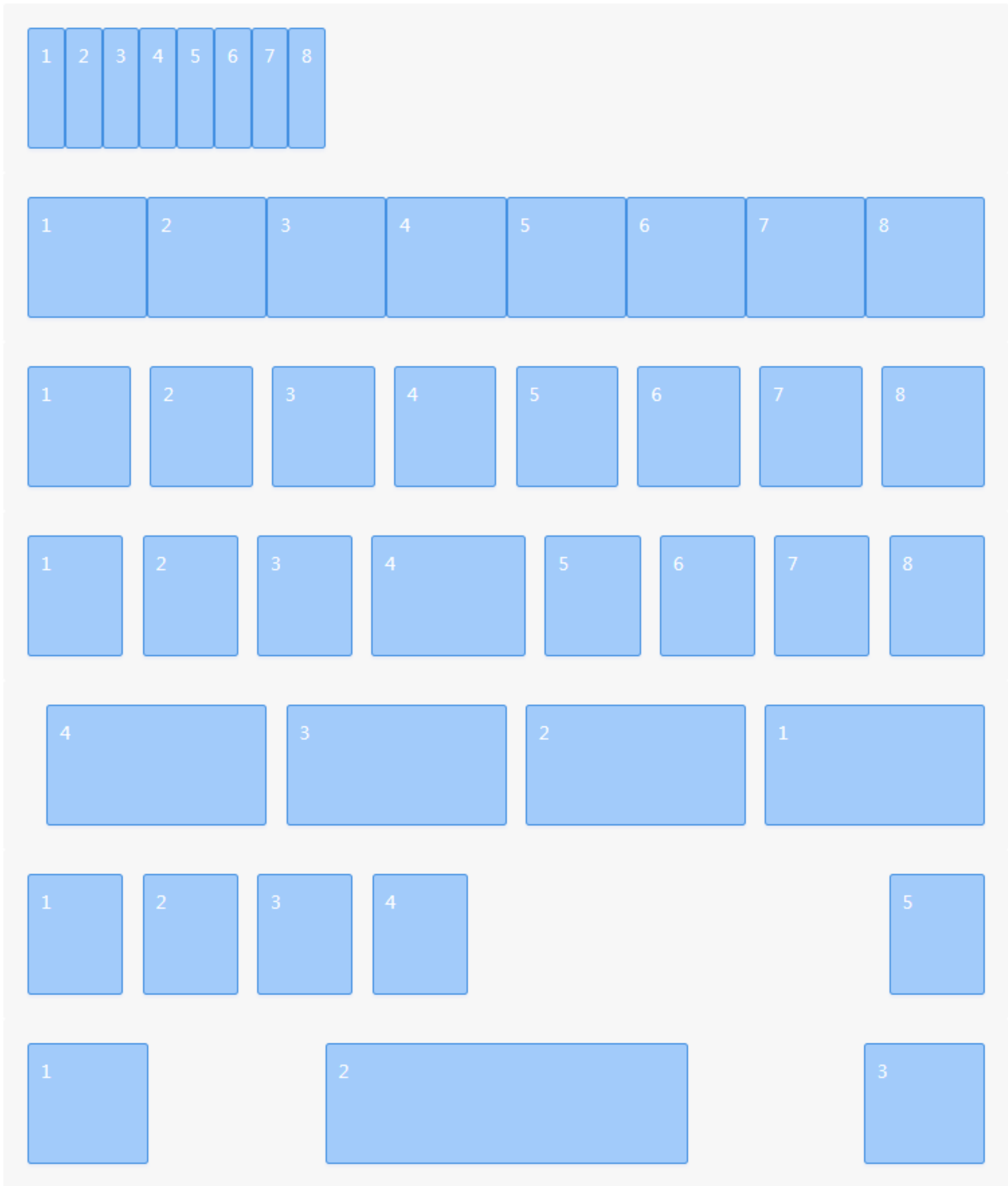
flex:2 200px

flex:1 1 0 | flex:2 | flex:200px | flex:2 200px | flex:1 1 150px

flex:1 1 150px

flex Layout01

```
1   /* flex01 */
2   .flex01{display: flex;}
3
4   /* flex02 */
5   .flex02{display: flex; }
6   .item02 {flex-grow: 1;}
7
8   /* flex03 */
9   .flex03{display: flex; }
10  .item03{flex-grow: 1;}
11  .item03 + .item03 {margin-left: 2%;}
12
13  /* flex04 */
14  .flex04{display: flex; }
15  .item04{flex-grow: 1;}
16  .item04:nth-child(4) {flex-grow: 2;}
17  .item04 + .item04 {margin-left: 2%;}
18
19  /* flex05 */
20  .flex05{display: flex;flex-direction: row-reverse; }
21  .item05{flex-basis: 200px;margin-left: 2%;}
22
23  /* flex06 */
24  .flex06{display: flex;}
25  .item06{flex-basis: 10%;}
26  .item06 + .item06 {margin-left: 2%;}
27  .item06:last-child{margin-left: auto;}
28
29  /* flex07 */
30  .flex07{display: flex;justify-content: space-between;}
31  .item07{flex-basis: 100px;}
32  .item07:nth-child(1){flex-basis: 100px;}
33  .item07:nth-child(2){flex-basis: 300px;}
34  .item07:nth-child(3){flex-basis: 100px;}
```

flex layout02

```
1   /* flex21 */
2   .flex21{
3       display: flex;
4       flex-flow:column wrap ;   /* flex-direction, flex-wrap */
5       align-content: space-between;
6       height: 800px;
7   }
8   .item21{
9       width: 32%;
10      margin-bottom: 2%;
11  }
12  .item21:nth-child(1){height: 100px; }
13  .item21:nth-child(2){height: 200px; }
14  .item21:nth-child(3){height: 300px; }
15  .item21:nth-child(4){height: 300px; }
16  .item21:nth-child(5){height: 300px; }
17  .item21:nth-child(6){height: 100px; }
18  .item21:nth-child(7){height: 200px; }
19  .item21:nth-child(8){height: 100px; }
20  .item21:nth-child(9){height: 200px; }
21  .item21:nth-child(3n+1){order: 1; }
22  .item21:nth-child(3n+2){order: 2; }
23  .item21:nth-child(3n){order: 3; }
24
```