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TP1 Assignment

Git url: https://github.com/nmaury/TpsCambodge/tree/main/InternetProgramming/tp1

Ex01. Basic layout

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex1.css">
    </head>
<body>
    <table style="width: 100%;border-spacing: 0px;border: solid □black 6px" >
        <tr>
            <td class="red">
            </td>
            <td class="grey" colspan="3">        You, 3 weeks ago • general commit …
            </td>
        </tr>
        <tr>
            <td class="green"></td>
            <td class="blue" rowspan="2"></td>
            <td class="light-purple" rowspan="2"></td>
            <td class="orange" rowspan="2"></td>
        </tr>
        <tr>
            <td class="purple"></td>
        </tr>
    </table>
</body>
</html>
```
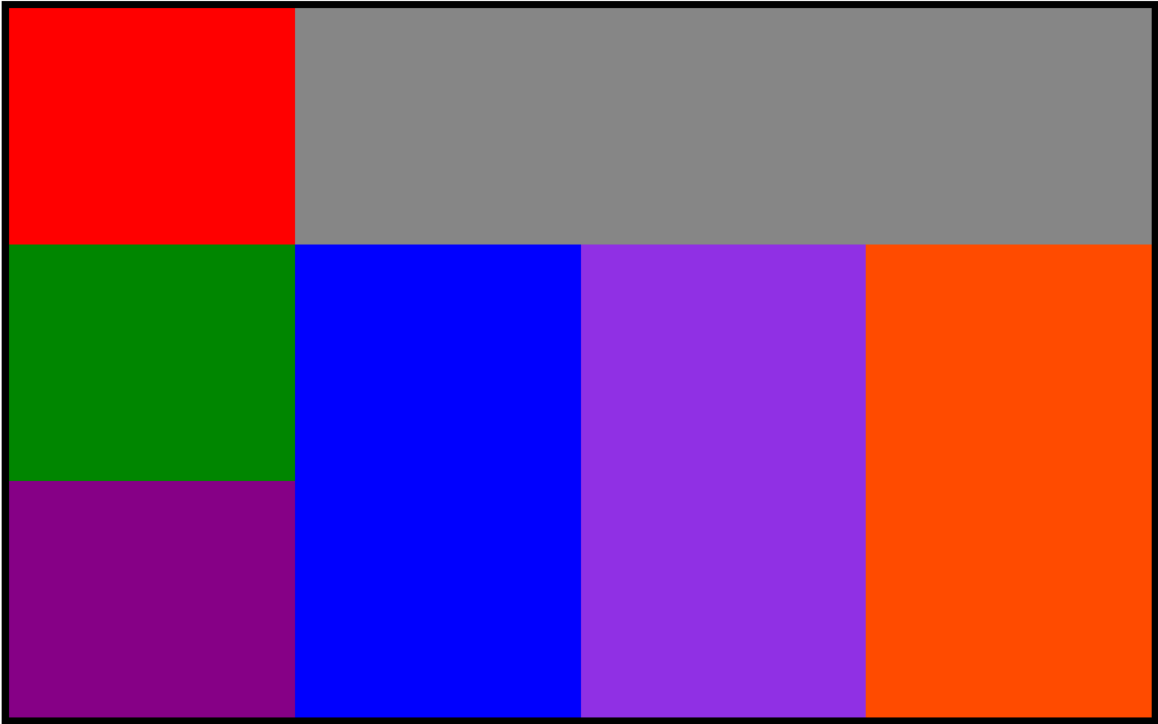
```css
.grey{
background-color: gray;
height: 200px;
}
.red{
background-color: red;
height: 200px;
}
.green{
    background-color: green;
    height: 200px;
}
.blue{
    background-color: blue;
    height: 200px;
}
.light-purple{
    background-color: blueviolet;
    height: 200px;
}
.purple{
    background-color: purple;
    height: 200px;
}
.orange{
    background-color: orangered;
    height: 200px;            You, 3 weeks ago • general commit …
}
```

Output:

Ex02. Centering a div in a container

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex2.css">
    </head>
<body>
    <div class="wrapper">
        <div class="flying-box">
            I'm in center &#x1F60B;
        </div>
    </div>
</body>
</html>
```

```css
.wrapper{
    position: absolute;
    top:50%;
    left:50%;
    transform: translate(-50%,-50%);
}
.flying-box{
    background-color: orangered;
    color: white;
    padding: 20px;
}
```

Output:

I'm in center 😋

Ex03. Centering a div in a container

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex3.css">
    </head>
<body>
    <div class="wrapper">
        <div class="flying-box">
            I'm really in center OMG &#x1F649;
        </div>
    </div>
</body>
</html>        You, 3 weeks ago • general commit …
```

```css
.wrapper{
    display: flex;
    justify-content: center;
    align-items: center;
    height: 800px;        You, 3 weeks
}
.flying-box{
    background-color: ▮orangered;
    color:▮white;
    padding: 20px;
}
```

Output:

Ex04. Column and row

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex4.css">
    </head>
<body>
   <div class="row-wrapper">
    <div class="column-wrapper">
        <div class="box">&#x1F92A;</div>
        <div class="box">&#x1F61C;</div>
        <div class="box">&#x1F637;</div>
    </div>
    <div class="column-wrapper">
        <div class="box">&#x1F92A;</div>
        <div class="box">&#x1F61C;</div>
        <div class="box">&#x1F637;</div>
    </div>
    <div class="column-wrapper">
        <div class="box">&#x1F92A;</div>
        <div class="box">&#x1F61C;</div>
        <div class="box">&#x1F637;</div>
    </div>
    <div class="column-wrapper">
        <div class="box">&#x1F92A;</div>
        <div class="box">&#x1F61C;</div>
    </div>
   </div>
</body>
</html>          You, 3 weeks ago • general commit
```
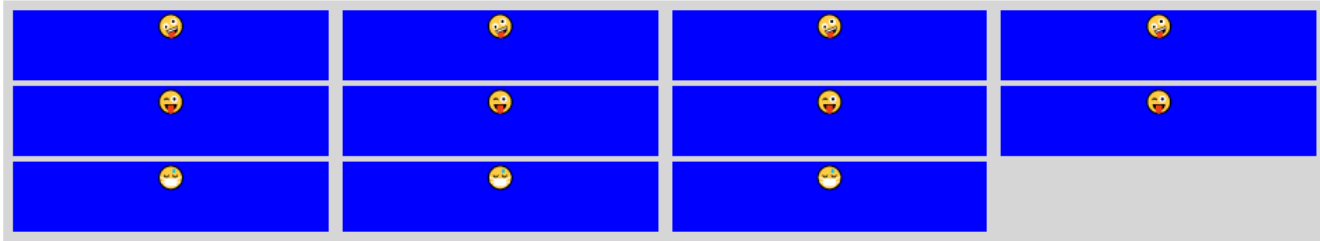
```css
.box{
background-color: blue;
text-align: center;
height:50px;
width: 100%;
margin: 2px;;
}
.row-wrapper{
    display: flex;
    width:100%;
    background-color: lightgray;
}
.column-wrapper{
    display:flex;
    width: 100%;
    flex-direction: column;
    padding:5px;
}
```

Output:

Ex05. Column and row

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex5.css">
    </head>
<body>
    <div class="grid">
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
        <div class="box">😜</div>
    </div>
</body>
</html>          You, 3 weeks ago • general commit
```

```css
.box{
    background-color: ■blue;
    text-align: center;
    height:50px;
    width: 100%;
    margin: 2px;;
}
    .grid{
        display: grid;
        grid-template-columns: repeat(3, 1fr);
        background-color: ■lightgray;
        gap: 2px;
    }
          You, 3 weeks ago • general commit …
```

Output:

Ex06. Responsive

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex6.css">
    </head>
<body>
  <div class="wrapper">
    <div class="content">
        <span class="small">I'm SMALL 😟</span>
        <span class="big">I'm BIG 😱</span>
    </div>
  </div>
</body>
</html>
```

```css
@media only screen and (max-width: 790px) {
    .big {
        visibility: visible;
        background-color: greenyellow;
    }
    .small{
        visibility: hidden;
    }
}
@media only screen and (min-width: 790px) {
    .big {
        visibility: hidden;
    }
    .small{
        visibility: visible;
        background-color: orangered;
    }
}
.content{
    display: flex;
    justify-content: center;
    align-items: center;
    height: 800px;
}
}
```
You, 3 weeks ago • general commit

Output:

I'm SMALL 😨   I'm BIG 😱
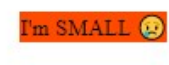
Ex07. Responsive

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex7.css">
    </head>
<body>
  <div class="wrapper">
    <div class="content">
    </div>
  </div>
</body>
</html>
```

```css
.content{
    width: clamp(300px,100%,800px);
    height: 800px;          You, 3 weeks ago
    background-color: ▢yellowgreen;
}
```

Output:

Ex08. Animation & variable

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex8.css">
    </head>
<body>
  <div class="wrapper">
        <span class="drop" style="--order: 1">🤪</span>
        <span class="drop" style="--order: 2">😛</span>
        <span class="drop" style="--order: 3">🤩</span>

  </div>
</body>
</html>
```

```css
.wrapper{
    display: flex;
    justify-content: center;
    align-items: center;
    height: 800px;
    gap:40px;
}
.drop{
    animation-name: animateIn;
    animation-duration: 1000ms;          You, 3 weeks ago
    animation-delay: calc(var(--order) * 500ms);
    animation-fill-mode: both;
    animation-timing-function: ease-in;
}
@keyframes animateIn {
    0% {
      opacity: 0;
      transform: scale(0.6) translateY(-8px);
    }

    100% {
      opacity: 1;
    }
  }
```

Output:

🧑‍🎨 😋 🤩

Ex09. Scrollable content

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex9.css">
    </head>
<body>
  <div class="container">
    <div class="header">
      Header
    </div>
    <div class="content">
        <h1>Scrolable Content</h1>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
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        <p>This is a paragraph</p>
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        <p>This is a paragraph</p>
```

```html
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
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        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
        <p>This is a paragraph</p>
    </div>
  </div>
</body>
</html>
```
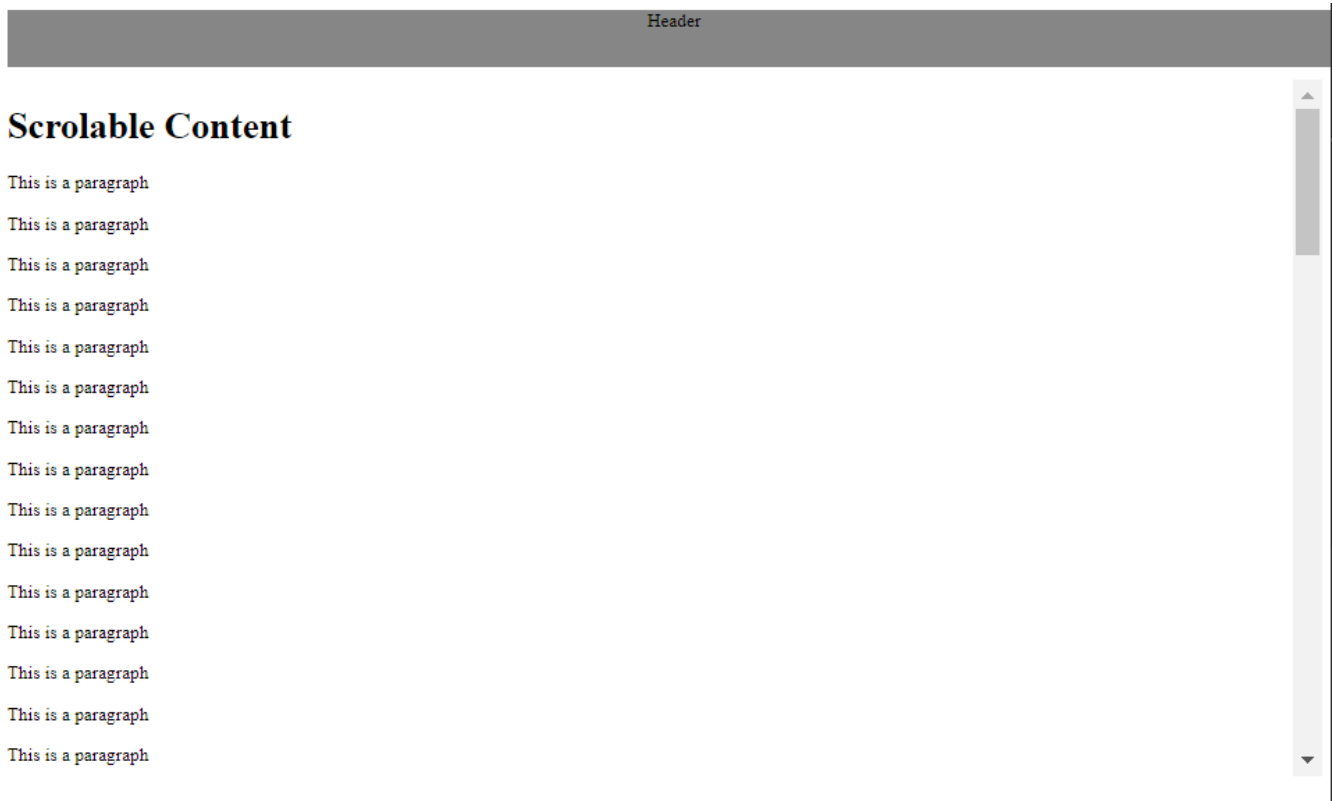
```css
.header{
    width: 100%;
    height: 50px;
    background-color: gray;
    position: fixed;
    text-align: center;
    z-index: 1;
}
.content{
    z-index: 0;
    position: relative;
    top:60px;
    overflow-y: scroll;
    height: 600px;
    overflow-x: hidden;
}
```
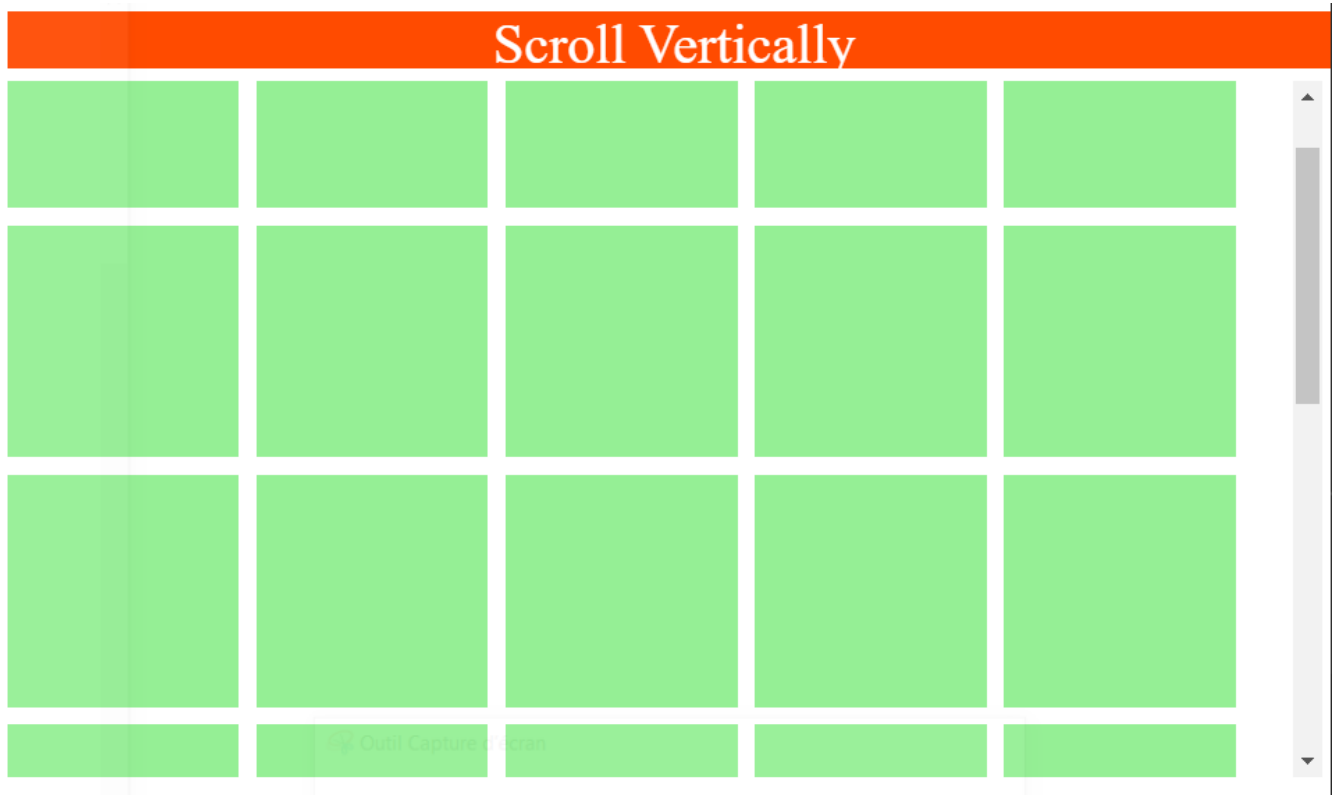
Output:

Header

Scrolable Content

This is a paragraph

This is a paragraph

This is a paragraph

This is a paragraph

This is a paragraph

This is a paragraph

This is a paragraph

This is a paragraph

This is a paragraph

This is a paragraph

This is a paragraph

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This is a paragraph

Ex10. Scrollable content

```
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex10.css">
    </head>
<body>
  <div class="container">
    <div class="header">
        Scroll Vertically
    </div>
    <div class="content">
        <div class="element"></div>
        <div class="element"></div>            You, 3
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
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```

```html
          <div class="element"></div>
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          <div class="element"></div>
          <div class="element"></div>
          <div class="element"></div>
          <div class="element"></div>
          <div class="element"></div>
      </div>
    </div>
</body>
</html>
```

```css
.header{
    width: 100%;
    height: 50px;
    background-color: orangered;
    position: fixed;
    text-align: center;
    z-index: 1;
    font-size: xxx-large;
    color: white
}
.content{
    z-index: 0;
    position: relative;
    top:60px;
    overflow-y: scroll;
    height: 600px;
    overflow-x: hidden;
    display: flex;
    gap:15px;
    flex-wrap: wrap;


}
.element{
    height:200px;
    width: 200px;
    background-color: lightgreen;
}
```

Output:

Ex11. Scrollable content

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex11.css">
    </head>
<body>
  <div class="container">
    <div class="header">
        Scroll Horizontally
    </div>
    <div class="content">
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
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```

```html
            <div class="element"></div>
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            <div class="element"></div>
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            <div class="element"></div>
            <div class="element"></div>
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            <div class="element"></div>
            <div class="element"></div>
            <div class="element"></div>
        </div>
    </div>
</body>
</html>
```

```css
.header{
    width: 100%;
    height: 50px;
    background-color: orangered;
    position: fixed;
    text-align: center;
    z-index: 1;
    font-size: xxx-large;
    color: white
}
.content{
    z-index: 0;
    position: relative;
    top:60px;
    height: 440px;                You, 3 weeks ago • g
    width: 300%;
    display: flex;
    gap:15px;
    flex-wrap: wrap;
    overflow-y: hidden;

}
.element{
    height:200px;
    width: 200px;
    background-color: lightgreen;
}
```

Output:

Ex12. Scrollable content

```html
<!DOCTYPE html>
<html>
    <head>
        <link rel="stylesheet" href="ex12.css">
    </head>
<body>
  <div class="container">
    <div class="contentI">
        <div class="elementI"></div>
        <div class="elementI"></div>
        <div class="elementI"></div>
        <div class="elementI"></div>
        <div class="elementI"></div>
        <div class="elementI"></div>
    </div>
    <div class="contentT">
        <div class="elementT"></div>
        <div class="elementT"></div>
        <div class="elementT"></div>
        <div class="elementT"></div>
        <div class="elementT"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="elementT"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="elementT"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="element"></div>
        <div class="elementT"></div>
        <div class="element"></div>
        <div class="element"></div>
```

```html
            <div class="element"></div>
        </div>
        <div class="contentC">
            <div class="elementC"></div>
            <div class="elementC"></div>
            <div class="elementC"></div>
            <div class="elementC"></div>
            <div class="element"></div>
            <div class="elementC"></div>
            <div class="element"></div>
            <div class="element"></div>
            <div class="element"></div>
            <div class="element"></div>
            <div class="elementC"></div>
            <div class="element"></div>
            <div class="element"></div>
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            <div class="element"></div>
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            <div class="element"></div>
            <div class="element"></div>
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            <div class="element"></div>
            <div class="elementC"></div>
            <div class="element"></div>
            <div class="element"></div>
            <div class="element"></div>
            <div class="element"></div>
            <div class="elementC"></div>
            <div class="elementC"></div>
            <div class="elementC"></div>
            <div class="elementC"></div>
            <div class="element"></div>          You,
        </div>
    </div>
</body>
</html>
```

```css
.container{
    display:flex;
    gap:20px;
    width: 100%;
    height: 700px;
}
.contentI{
    display: flex;
    flex-wrap: wrap;
    width: 500px;
    flex-direction :column;
    justify-content: center;
    align-content:center;
}
.contentT{
    display: flex;
    flex-wrap: wrap;
    width: 500px;
    flex-direction :row;
    justify-content: center;
    align-content:center;
}
.contentC{
    display: flex;
    flex-wrap: wrap;
    width: 500px;
    flex-direction :row;
    justify-content: center;
    align-content:center;}
.elementI{
    background-color: lightcoral;
    width: 100px;
    height: 100px;
}
```

```css
.elementT{
    background-color: lightgreen;
    width: 90px;
    height: 100px;
}
.elementC{
    background-color: lightgoldenrodyellow;
    width: 90px;
    height: 100px;
}
.element{
    width: 90px;
    height: 100px;
}
```

Output:

ITC