

We are following OpenCV's format for run-length encoding where tuples are (start_col, end_col, row)

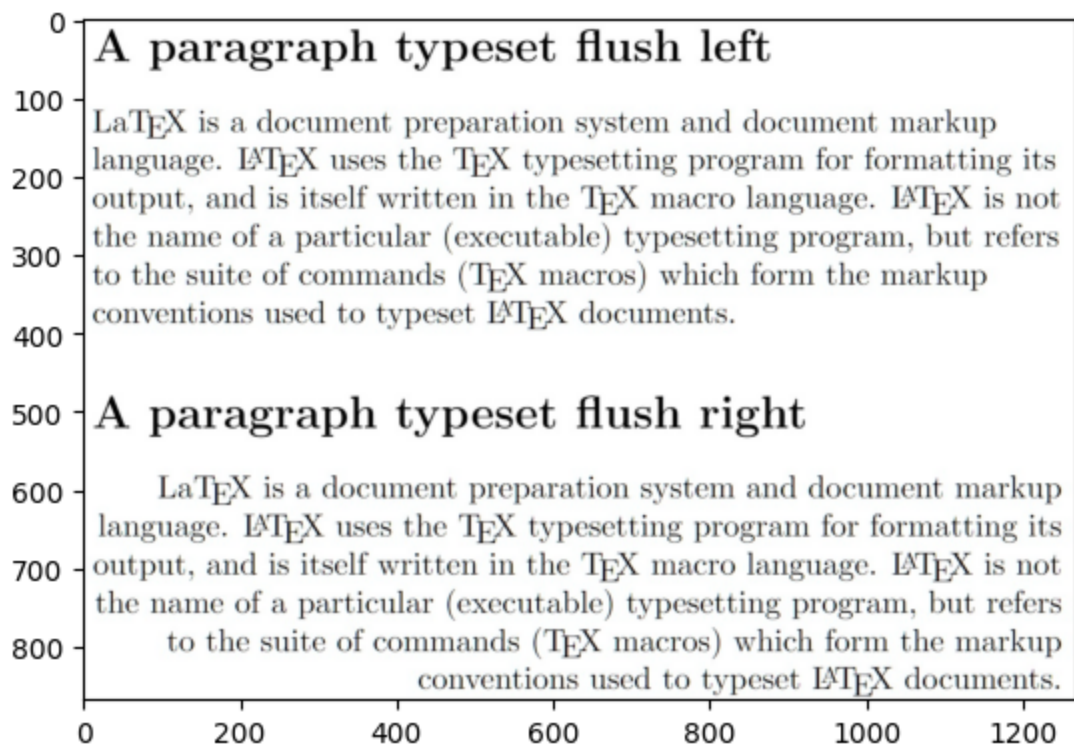
```
In [1]: def runlength(mat):  
        a = []  
  
        for r in range(len(mat)):  
            arr=mat[r]  
            start=0  
            end=0  
            isCounting=False  
            for i in range(len(arr)):  
                if arr[i]==255 and isCounting ==False:  
                    isCounting=True  
                    start=i  
                # print("starting",i)  
  
                if arr[i]==0 and isCounting==True:  
                    end=i-1  
                    isCounting=False  
                # print("ending", i)  
                a.append((start,end,r))  
  
            if arr[len(arr)-1] == 255:  
                end=len(arr)-1  
                a.append((start,end,r))  
  
        return a
```

```
In [2]: import cv2 as cv  
import numpy as np  
import matplotlib.pyplot as plt
```

```
In [3]: img = cv.imread("img.jpeg")  
_, b = cv.threshold(img, 30, 255, cv.THRESH_BINARY)
```

```
In [6]: plt.imshow(img)
```

```
Out[6]: <matplotlib.image.AxesImage at 0x17db05610>
```



```
In [4]: b = np.mean(b,axis=-1,dtype=int)
```

```
In [5]: runlength(b)
```

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