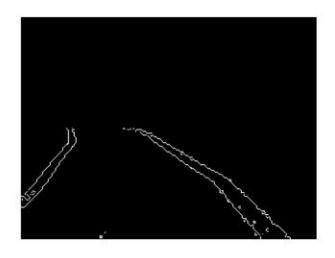
1. Import dependencies (cv2, and others you like)

```
In 1 1 import cv2
2 from showimages import showrgb
3 import numpy as np
```

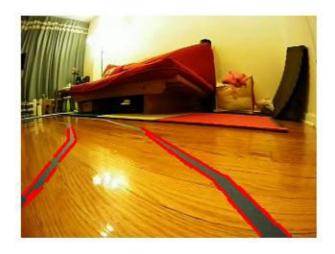
2. Convert the image into canny



3. Detect lines

Hint: cv2.HoughLinesP()

4. Draw the detected lines



5. Make the segmented lines into 2 separate ones (giving the solution here, but please read through it, there are comments to guide you)

```
def average slope intercept(img, line segments):
          = img.shape
                   left fit.append((slope, intercept))
   left fit average = np.average(left fit, axis=0) # average of slope
       lines.append(make points(img, left fit average))
```

```
right_fit_average = np.average(right_fit, axis=0) # average of
slope and intercept
  if len(right_fit) > 0:
      lines.append(make_points(img, right_fit_average))
  return lines
```

6. Putting it all together

```
def detect_lanes(img):
    img_canny = get_canny(img)
    img_lines = get_lines(img_canny)
    img_lines = average_slope_intercept(img, img_lines)
    return img_lines
```

7. Draw the two lines obtained



8. Get the middle point of the lines

