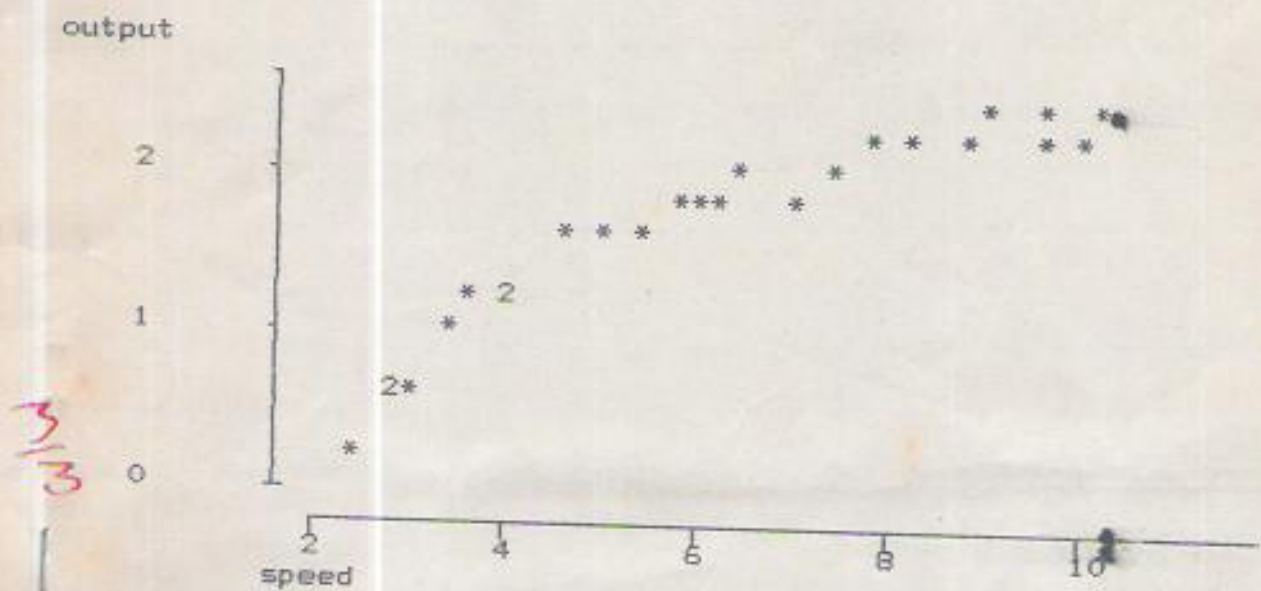


$\frac{3}{3}$

is insufficient evidence to enable us to conclude that there is a correlation between the heights of brothers and sisters (although the confidence interval is heavily positively skewed; it seems intuitive that there is a +ve correlation). Be careful of explaining calculation by intuition!!

```
load(wind)
» output[25] speed[25] (M246 p.000)
plot(output, speed)
```



There appears to be a positive, but not linear correlation between output and wind speed. Possibly the output is related as a power or a log of the speed.

```
pmcorr(output, speed)
0.9351
spcorr(output, speed)
0.9823
```

✓ $\frac{3}{3}$

The relationship between the two variables is positive but not linear. The variables increase in tandem, so even if the relationship is not linear, the ranks of the variables will be a linear, or roughly linear relationship.