3. 12 recruits were subjected to selection test to ascertain their suitability for a certain course of training

Recruit	1	2	3	4	5	6	7	8	9	10	11	12
Selection	44	49	52	54	47	76	65	60	63	58	50	67
Proficiency	48	55	45	60	43	80	58	50	77	46	47	65

ans

> selection = c(44,49,52,54,47,76,65,60,63,58,50,67)
> proficiency = c(48,55,45,60,43,80,58,50,77,46,47,65)
> cor.test (selection, proficiency, method = "spearman")

$$S = 80, \ p\text{-value} = 0.01102$$

Alternative hypothesis: true rho is not equal to 0
Sample estimates:
  rho
0.7202797

12 students in statistics and computer science

	1	2	3	4	5	6	7	8	9	10	11	12
Comp	35	32	65	50	63	45	50	65	70	72	72	40
Stats	55	40	70	60	62	73	65	65	20	35	46	50

```
> statistics = c(55,40,70,60,62,73,65,65,20,35,46,50)
> comp = c(35,32,65,50,63,45,50,65,70,72,72,40)
> cor.test(statistics, comp, method = "kendall")
```

Kendall's rank correlation tau

data: statistics and comp

$z = -0.27688$, p-value $= 0.7819$

alternative hypothesis: true tau is not equal to 0

sample estimates:

tau

-0.06250763

There is a negative correlation between comp and statistics

x - - - - - - - - - - - - - - - - x