## Ранговая корреляция Спирмена

Два эксперта X и Y выставили оценки десяти образцам продукции завода. Найти выборочный коэффициент корреляции Спирмена  $\rho_{\rm B}$  между их оценками. <sup>1</sup>

Задача 44.1. Алексахин Антон X = [46, 43, 39, 38, 34, 32, 29, 25, 22, 19] Y = [53, 35, 43, 48, 23, 13, 58, 28, 64, 18]

**Задача 44.2.** Балов Артём Игоревич X = [46, 42, 40, 38, 35, 31, 29, 26, 22, 18] Y = [54, 48, 63, 31, 19, 59, 13, 36, 24, 43]

 Задача 44.3.
 Белоусов Георгий

 Михайлович
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X = [45, 42, 40, 38, 34, 31, 28, 26, 23, 19]Y = [54, 48, 37, 42, 19, 11, 29, 62, 23, 59]  ${f 3}$ адача  ${f 44.4.}$  Бондаренко Андрей X=[46,42,39,37,34,31,28,24,22,20] Y=[57,49,44,28,63,18,12,33,24,52]

**Задача 44.5.** Гильманов Булат Наильевич

X = [46, 42, 40, 38, 35, 31, 29, 26, 22, 19]Y = [58, 48, 44, 25, 19, 54, 11, 30, 35, 63]  ${f 3}$ адача  ${f 44.6.}$  Егоров Всеволод Kириллович X=[46,43,40,37,34,31,29,25,22,20] Y=[53,48,63,43,22,13,17,30,37,59]

Задача 44.7. Журавлева Анастасия X = [47, 44, 40, 36, 34, 31, 28, 26, 23, 19] Y = [58, 63, 43, 26, 49, 16, 12, 29, 53, 36]

Задача 44.8......X = [46, 43, 40, 38, 34, 32, 29, 25, 22, 20]Y = [59, 53, 64, 31, 23, 17, 10, 36, 49, 43]

 $egin{array}{ll} {f 3}$ адача 44.9. Зубрильчев Даниил  $X=[46,43,40,36,35,32,28,25,22,19] \ Y=[53,43,48,28,58,18,13,64,24,36] \end{array}$ 

Задача 44.10. Изотов Роман Игоревич X = [46, 44, 40, 37, 34, 32, 28, 24, 22, 19] Y = [58, 53, 32, 43, 35, 23, 10, 49, 64, 17]

**Задача 44.11.** Луканин Александр Сергеевич  $X = \begin{bmatrix} 46 & 43 & 39 & 37 & 34 & 30 & 27 & 24 & 22 & 19 \end{bmatrix}$ 

X = [46, 43, 39, 37, 34, 30, 27, 24, 22, 19]Y = [52, 48, 57, 62, 28, 12, 36, 42, 24, 17]  ${f 3}$ адача  ${f 44.12}.$  Семенов Дмитрий Сергеевич X=[45,43,40,37,33,30,28,26,22,19] Y=[53,47,43,25,19,33,58,10,30,62]

**Задача 44.13.** Сеп Субхам X = [46, 43, 40, 37, 33, 30, 27, 24, 22, 19] Y = [57, 48, 42, 52, 24, 19, 12, 30, 34, 62]

 ${f 3}$ адача  ${f 44.14.}$  Степанова Светлана X=[45,42,39,37,35,32,29,26,23,19] Y=[53,49,63,28,18,12,34,58,24,43]

 $<sup>^{1}\</sup>Gamma$ мурман В.Е. Руководство к решению задач по теории вероятностей и математической статистике. М.:1969. с. 202.

## Задача 44.15.

Уткин Артем

#### Евгеньевич

X = [46, 43, 39, 37, 33, 31, 27, 24, 21, 18]

Y = [57, 53, 35, 63, 47, 23, 16, 10, 30, 42]

Задача 44.16. Храпов Иван Николаевич

X = [45, 43, 39, 38, 33, 31, 28, 25, 23, 20]

Y = [54, 48, 57, 36, 17, 23, 12, 63, 31, 43]

# Задача 44.17. Чернышев Егор

Вадимович

X = [46, 43, 40, 38, 35, 32, 28, 25, 22, 19]

Y = [54, 58, 48, 28, 18, 22, 12, 64, 36, 43]

## Задача 44.18.

X = [45, 44, 39, 36, 33, 31, 28, 24, 21, 18]

Y = [52, 64, 57, 47, 29, 23, 19, 13, 43, 36]

## Задача 44.19.

X = [46, 43, 41, 37, 33, 31, 29, 26, 22, 18]

Y = [53, 47, 43, 24, 18, 59, 63, 13, 29, 38]

## Задача 44.20.

X = [46, 43, 41, 37, 34, 30, 28, 25, 21, 19]

Y = [59, 47, 62, 22, 28, 18, 12, 44, 35, 52]

## Задача 44.21.

X = [47, 44, 41, 37, 34, 31, 29, 25, 22, 20]

Y = [59, 52, 44, 24, 31, 14, 64, 38, 48, 19]

## Задача 44.22.

X = [46, 42, 41, 36, 35, 31, 27, 24, 22, 20]

Y = [52, 43, 58, 36, 25, 13, 18, 28, 62, 49]