## 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>

 $egin{aligned} {f 3}$ адача 44.1. Азин Андрей  $X=[45,44,40,37,34,32,29,26,23,19] \ Y=[54,64,30,25,34,17,11,58,43,49] \end{aligned}$ 

 ${f 3}$ адача  ${f 44.2.}$  Арефин Максим X=[45,42,41,38,35,32,29,25,21,18] Y=[53,48,63,25,36,17,11,30,59,42]

**Задача 44.3.** Булгакова Анна X = [46, 42, 40, 38, 35, 30, 27, 25, 22, 18] Y = [54, 48, 62, 42, 18, 23, 12, 58, 31, 35]

 $egin{aligned} {f 3aдачa} & {f 44.4.} & {f Быкова} & {f Eвгения} \ X &= [47,43,41,37,34,32,29,25,22,19] \ Y &= [59,42,31,25,52,18,11,37,49,63] \end{aligned}$ 

Задача 44.5. Викторов Александр X = [46, 42, 41, 37, 35, 31, 27, 24, 22, 20] Y = [58, 49, 53, 43, 25, 12, 16, 29, 37, 62]

 ${f 3}$ адача  ${f 44.6.}$  Вольнов Кирилл X=[46,44,39,37,33,32,28,24,22,19] Y=[57,53,48,64,30,23,12,42,35,15]

Задача 44.7. Гречко Даниил X = [47, 43, 41, 38, 33, 32, 28, 24, 22, 19] Y = [58, 35, 53, 42, 24, 17, 12, 31, 48, 63]

**Задача 44.8.** Ермаков Данила X = [46, 42, 41, 38, 35, 32, 28, 24, 22, 19] Y = [53, 63, 58, 31, 25, 11, 43, 35, 49, 19]

**Задача 44.9.** Захаренков Иван X = [46, 42, 40, 37, 35, 32, 28, 24, 22, 20] Y = [58, 49, 53, 29, 36, 12, 17, 63, 43, 25]

 $egin{aligned} {f 3}$ адача 44.10. Малагин Даниил  $X=[46,43,40,37,35,30,28,25,21,19] \ Y=[59,52,48,44,25,19,11,29,36,63] \end{aligned}$ 

 $egin{aligned} {f 3}$ адача 44.11. Мартынов Антон  $X = [46, 43, 40, 37, 35, 31, 29, 26, 23, 19] \ Y = [58, 49, 31, 25, 34, 12, 43, 63, 54, 19] \end{aligned}$ 

 ${f 3}$ адача  ${f 44.12}.$  Махмутов Валентин X=[46,42,40,36,33,31,29,26,23,19] Y=[59,48,63,43,22,18,12,28,35,53]

**Задача 44.13.** Мелешко Павел X = [46, 43, 41, 37, 34, 31, 29, 26, 23, 20] Y = [59, 54, 49, 25, 36, 17, 12, 31, 43, 64]

 ${f 3a}$ дача  ${f 44.14.}$  Мохамед Али X=[47,43,41,37,33,32,29,26,22,19] Y=[59,53,44,24,18,47,63,10,30,36]

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

**Задача 44.15**. Сионов Павел X = [46, 44, 39, 38, 34, 31, 28, 25, 22, 18] Y = [54, 64, 30, 57, 17, 24, 48, 13, 35, 42]

**Задача 44.16.** Соколов Константин X = [47, 44, 40, 37, 35, 30, 28, 25, 22, 19] Y = [59, 53, 63, 31, 23, 12, 18, 37, 43, 49]

Задача 44.17. Хохлов Александр X = [47, 43, 41, 37, 35, 32, 29, 26, 23, 20] Y = [59, 64, 49, 23, 36, 11, 43, 29, 54, 18]

**Задача 44.18.** Новиков Станислав X = [46, 42, 41, 37, 34, 31, 28, 25, 22, 19] Y = [54, 47, 36, 63, 24, 16, 12, 30, 58, 44]