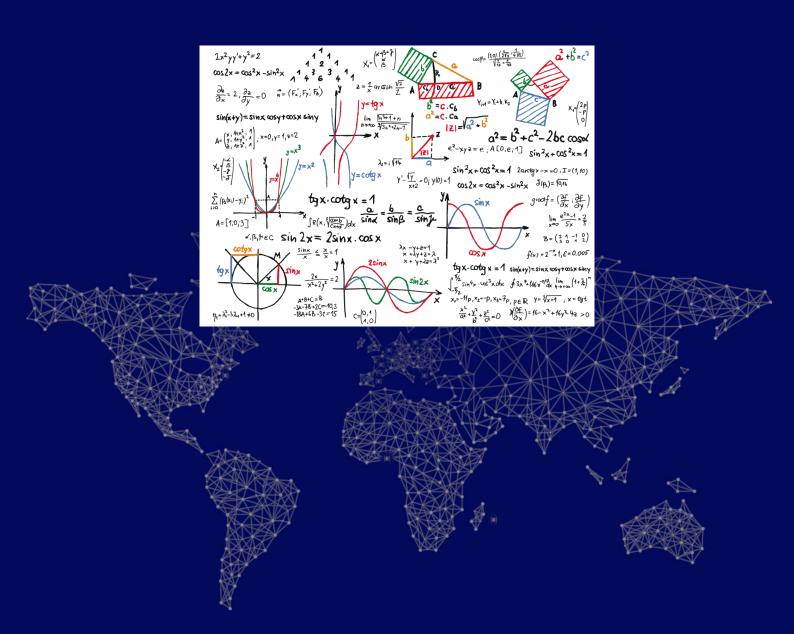


202UNSOLD

STATISTICS FOR SELLING SUIT STOCK



202UNSOLD



binary name: 202unsold

language: everything working on "the dump"

compilation: when necessary, via Makefile, including re, clean and fclean rules



- ✓ The totality of your source files, except all useless files (binary, temp files, objfiles,...), must be included in your delivery.
- ✓ All the bonus files (including a potential specific Makefile) should be in a directory named bonus.
- ✓ Error messages have to be written on the error output, and the program should then exit with the 84 error code (0 if there is no error).

Once a year, a suit-seller gets rid of their unsold stock, selling separately jackets and trousers, at \$10, \$20, \$30, \$40 and \$50. They'd like to know how much each piece of clothing is likely to yield (expected value and variance).

They gave their statistician friend a mission: to deduce from their past results the probability to sell a x jacket and y trousers together. It appears that the probability is defined by the following formula (a and b being integers greater than b0, depending on the economic climate):

$$\frac{(a-x)(b-y)}{(5a-150)(5b-150)}$$

Let's call X, Y and Z, respectively, the random variables that represent "the price of a sold jacket", "the price of sold trousers" and "the price of a sold suit". Given the values of a and b, your software must print:

- \checkmark an array summing up the joint law of (X,Y), and the marginal laws of X and Y,
- \checkmark an array summing up the law of Z,
- \checkmark expected values and variances of X, Y and Z.

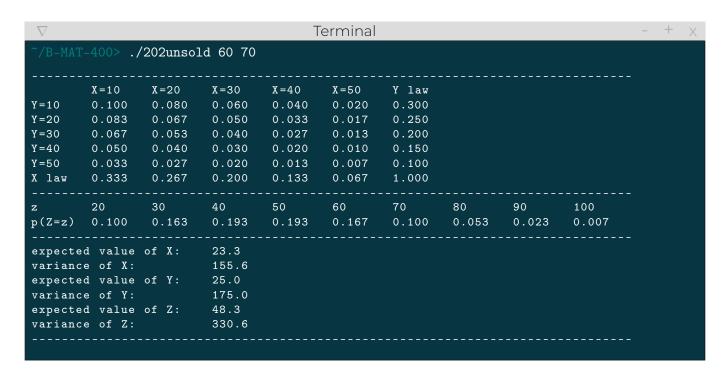


- ✓ Any function or library that does any main computation on this project is implicitely forbidden
- ✓ **Examples**: Variance, expected value, ...



Usage

Examples





Don't worry too much about tabulations in the printing format.



