

Task 1

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- What does it do?
it prints two not sufficiently seeded "random" variables
- The difference between the methods is that `rand()` returns a random number and the other method
 - `rand()` returns a random integer between 0 and `RANDMAX`
 - `gsl_rng_mt19937` is a generator that generates random numbers

In the code the generator is passed to a (Distribution)function that uses this generator to evaluate a random number depending on the Distribution specified in the function.

- What happens if you remove the expression `(double)`?
The division operation $\frac{rand()}{RANDMAX}$ does $\frac{intSmall}{intBig}$ and should result in a double, but with no cast it will be floored to 0.
- Is there a direct function to generate normally distributed random variables?
`double gsl_ran_gaussian_pdf(const gsl_rng * r, double sigma) command`