1. Compare bivariate predictors to independence predictors

- run runME_oneZoneY.R
- required files: basefun.R , basefun_uni.R, cpp.R
- change `case` from 1 to 4 to do four different simulation studies in Section 4.1
- output: `result/simuresult_EBP.rds`
- use function `AvMSE_BR` in runME_analysis.R to compute MSE and bias ratio

2. Evaluation of bootstrap MSE estimator

- run runME_oneZoneY.R with setting `bootstrap = TRUE`
- required files: basefun.R , basefun_uni.R, cpp.R
- this bootstrap computation requires parallel computation
- output: `result/bootstarpMSE_s.rds` for $s = 1, \ldots, S$
- use function `relative_bias` in runME_analysis.R to compute relative bias

3. Informative sampling simulation

- run runME_oneZoneY.R with setting `noninfor = FALSE`
- required files: basefun.R , basefun_uni.R, cpp.R
- set `wronguse = TRUE` to ignore the sampling weights in estimation procedure
- simulated sample data sets are names as `SAE_sample_infor_s.rds` for $s = 1, \ldots, S$
- output: `result/simuresult_EBP.rds`

4. Reproduce Li & Zaslavsky (2010) Bayesian model

- run runME_bayes.R with `rstan` package
- required files: Bayes_basefun.R and simulated population and sample data stored in `data` folder
- output: `rstan/Bayes_result.rds`