Synthetic Data Generator Algorithm

1. Assign students S_{i+1} .. S_{i+5} as graders to every student S_i
2. Sample $\mathcal{N}(0, 10)$ for each user and assign it as bias b.
3. Sample $rg \leftarrow \mathcal{N}(70, 40)$ for each user.
   (a) If $0 \leq rg \leq 100$ set rg as real grade.
   (b) If $rg < 0$ set $rg = 0$ as real grade.
   (c) If $rg > 100$ set $rg = 100$ as real grade.
4. Sample $g \leftarrow \mathcal{N}(realgrade, 20)$ for each submission.
   (a) If $0 \leq g + b \leq 100$ set $g + b$ as grade.
   (b) If $g + b < 0$ set $g + b = 0$ as grade.
   (c) If $g + b > 100$ set $g + b = 100$ as grade.