

4.3.1

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(a)

$$E[X_1] = 2000$$

$$\Pi_1 = 2500$$

$$E[X_2] = 2756.9362533$$

$$\Pi_2 = 3032.6298786$$

$$E[X_3] = 2221.4414691$$

$$\Pi_3 = 2665.7297629$$

$$E[X_4] = 2202.6465795$$

$$\Pi_4 = 2863.4405533$$

$$E[X_5] = 1940$$

$$\Pi_5 = 1930.3$$

```
set.seed(20130402)
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