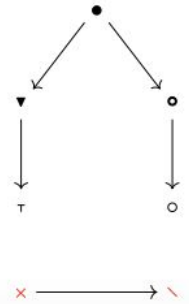
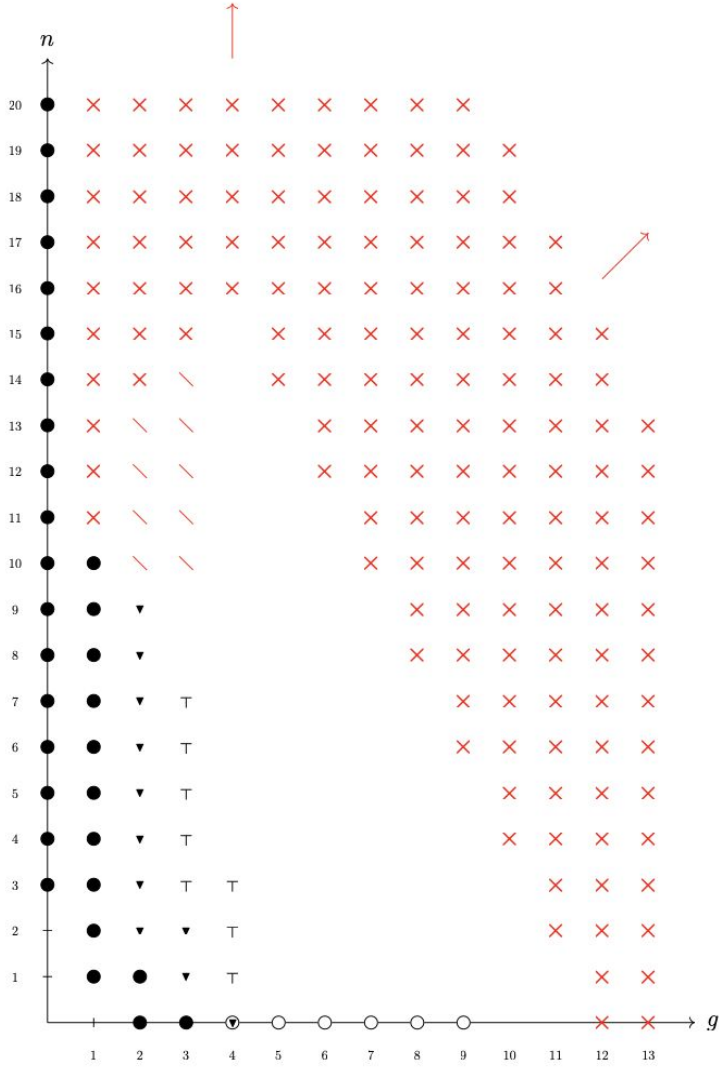
- $A^*(\overline{\mathcal{M}}_{g,n}) = R^*(\overline{\mathcal{M}}_{g,n})$ and $H^*(\overline{\mathcal{M}}_{g,n}) = RH^*(\overline{\mathcal{M}}_{g,n})$
- $H^*(\overline{\mathcal{M}}_{g,n}) = RH^*(\overline{\mathcal{M}}_{g,n})$
- $\#\overline{\mathcal{M}}_{g,n}(\mathbb{F}_q) = P(q)$
- $A^*(\mathcal{M}^{\mathrm{ct}}_{g,n}) = R^*(\mathcal{M}^{\mathrm{ct}}_{g,n})$
- $A^*(\mathcal{M}_{g,n}) = R^*(\mathcal{M}_{g,n})$
- $A^*(\overline{\mathcal{M}}_{g,n}) \neq R^*(\overline{\mathcal{M}}_{g,n})$ and $H^*(\overline{\mathcal{M}}_{g,n}) \neq RH^*(\overline{\mathcal{M}}_{g,n})$
- $H^*(\overline{\mathcal{M}}_{g,n}) \neq RH^*(\overline{\mathcal{M}}_{g,n})$





- $A^*(\overline{\mathcal{M}}_{g,n}) = R^*(\overline{\mathcal{M}}_{g,n})$ and $H^*(\overline{\mathcal{M}}_{g,n}) = RH^*(\overline{\mathcal{M}}_{g,n})$
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- $\#\overline{\mathcal{M}}_{g,n}(\mathbb{F}_q) = P(q)$
- $A^*(\mathcal{M}^{\mathrm{ct}}_{g,n}) = R^*(\mathcal{M}^{\mathrm{ct}}_{g,n})$
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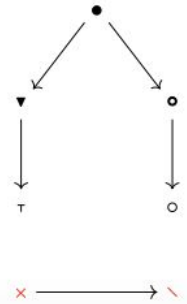

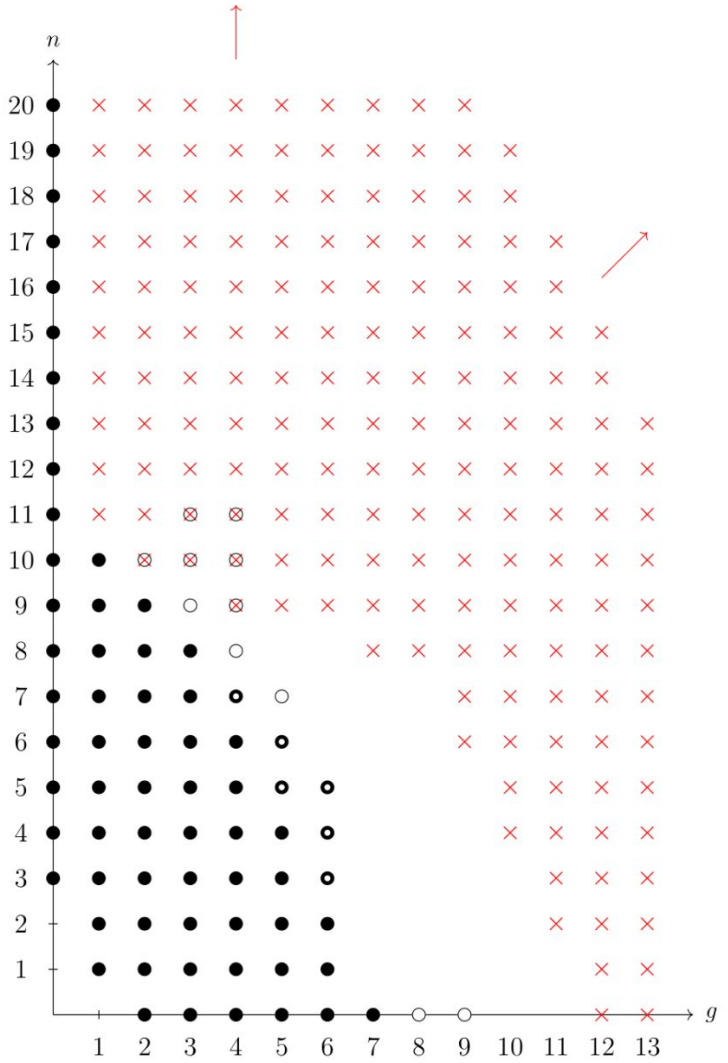

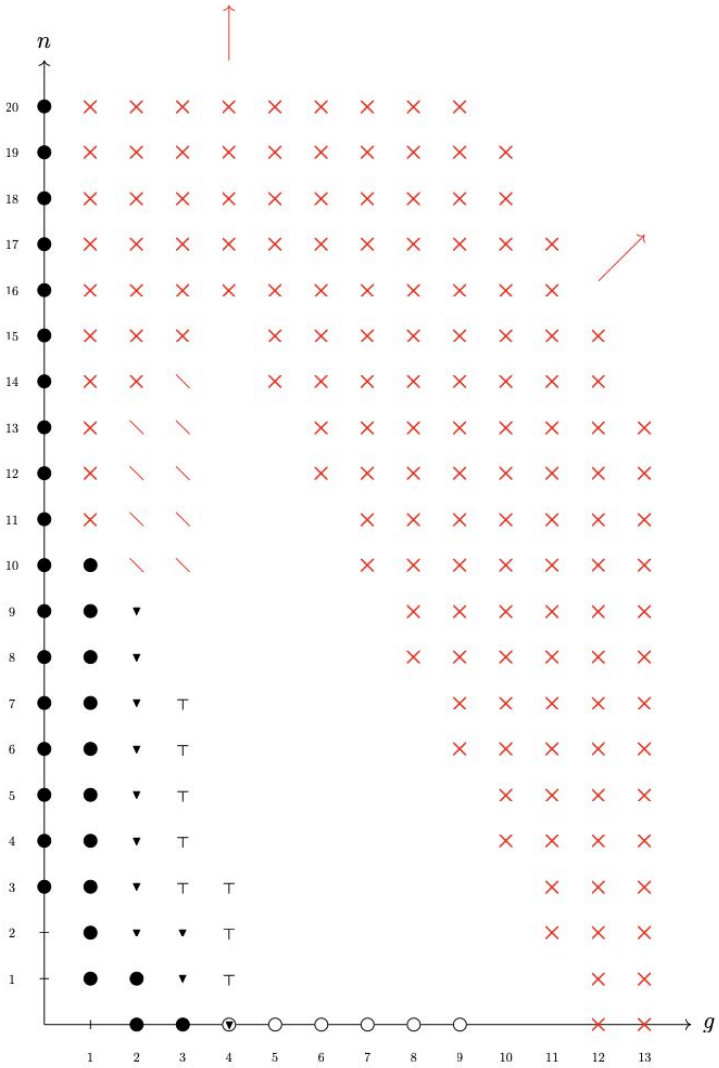
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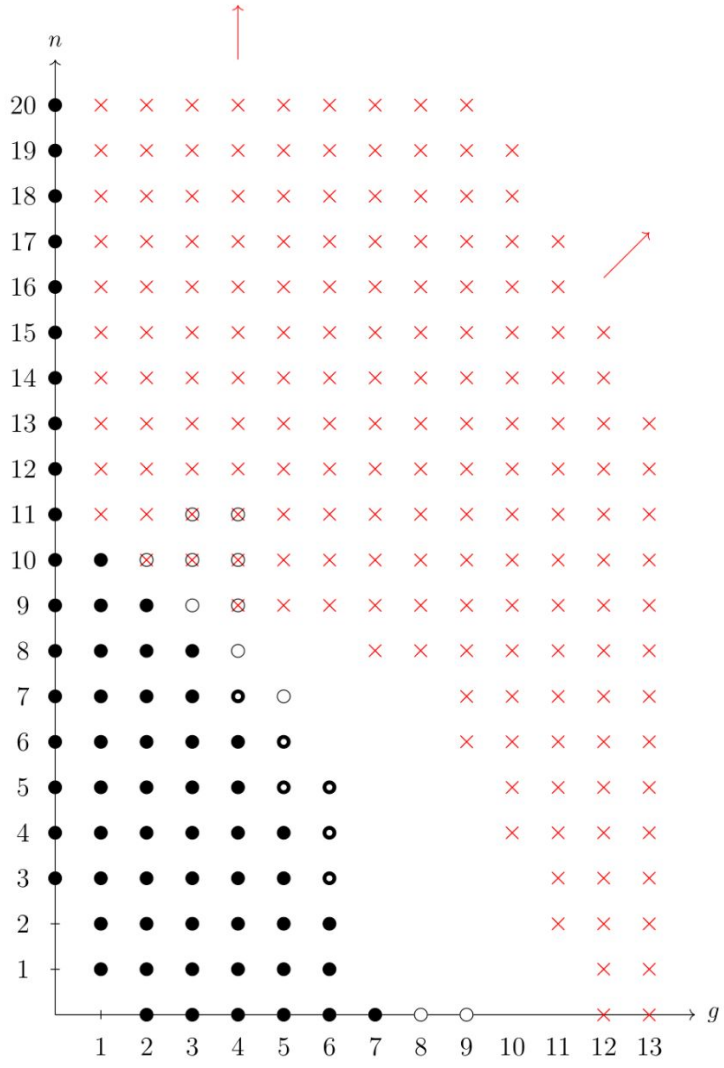
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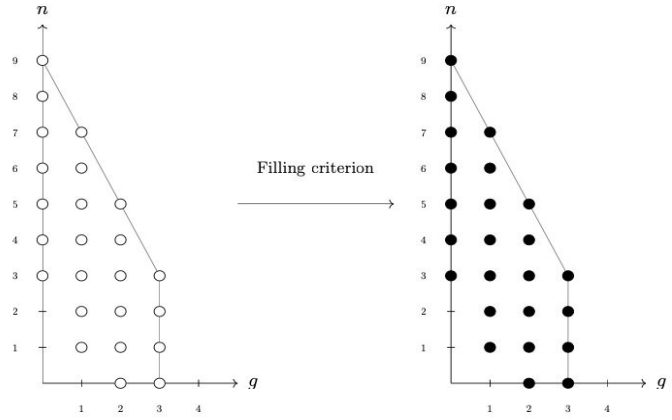
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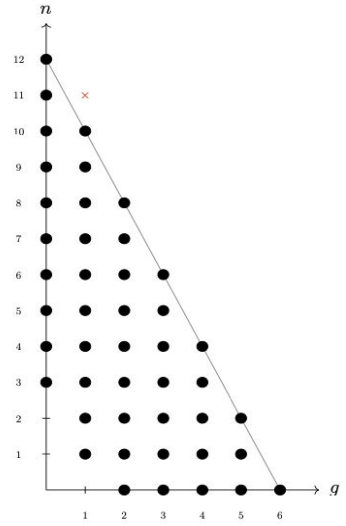
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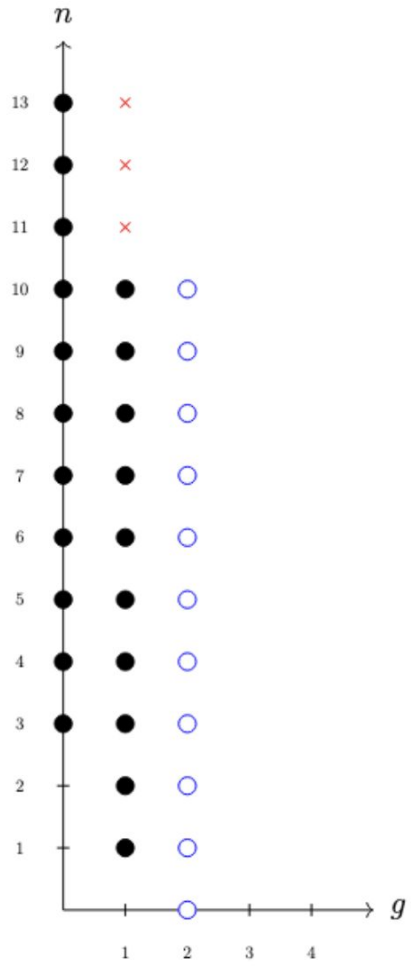
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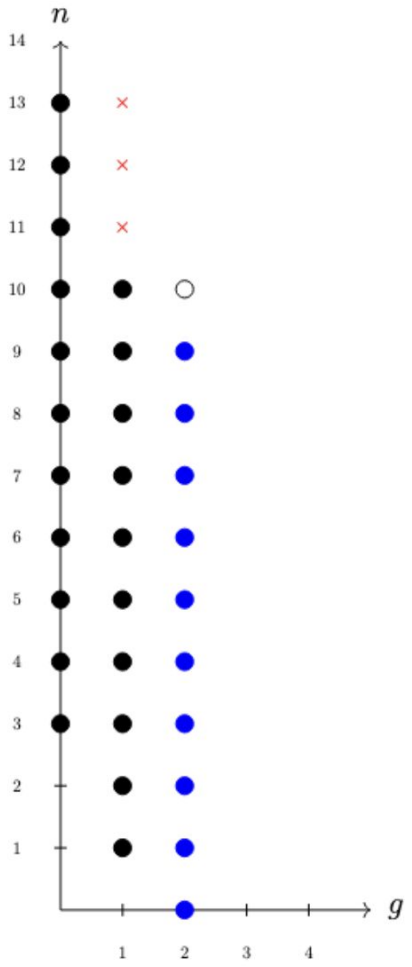
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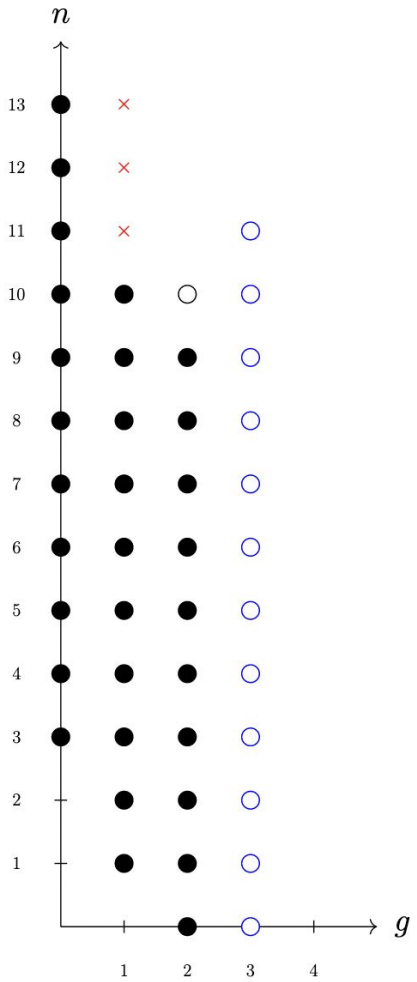
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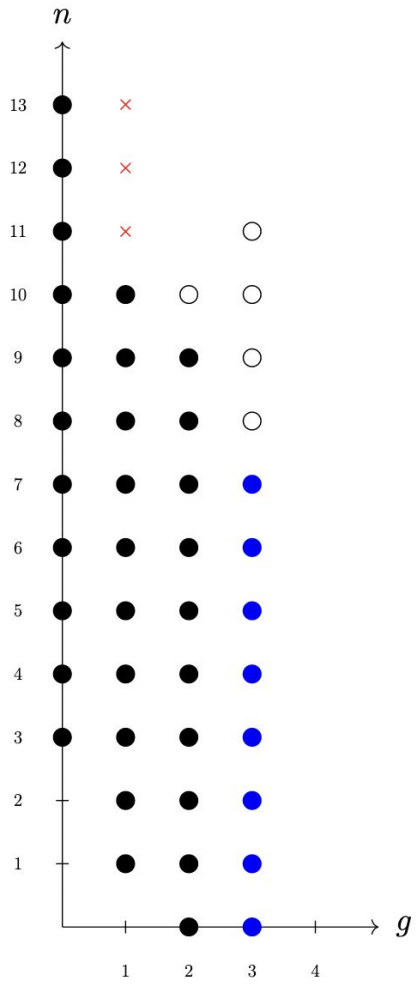
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