

Desc. Experience 1

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Sub-Experience One: Fun and Games

Figure 1.



Sub-Experience Two: The Binary Addressing Graph

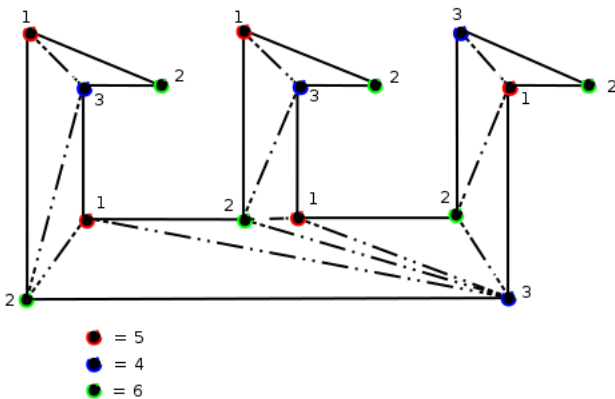
1. $|V(Q_n)| = 2^n$

Figure 2.

AB \ CD	00	01	11	10
00	0	1	0	1
01	1	0	1	0
11	0	1	0	1
10	1	0	1	0

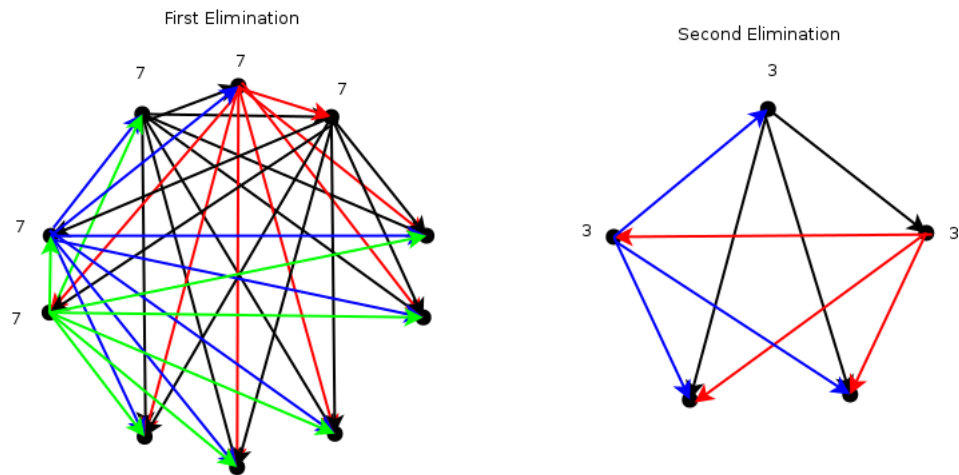
Because this solution is looking for a binary power we can prove this with a Karnaugh Map (Figure 2) What this shows in the relation between the vertices. If there is a relation then 1's will be adjacent to one another. We can see that because the pattern is that is created by the Karnaugh map there can be no relations between vertices.

Sub-Experience Three: Space Station Problems



Sub-Experience Four: Regions Determined by Chords of a Circle

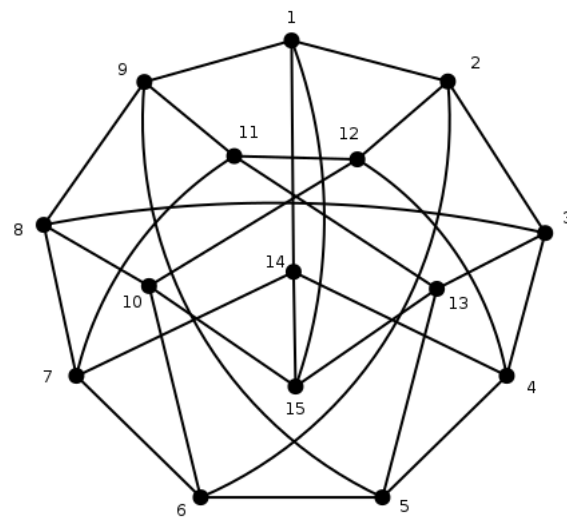
Sub-Experience Five: Survivors in a Tournament.



Sub-Experience Six: Better-Than-Good Will Hunting

Verify that the graph G (below) has a diameter of 2.

By using Lemma 2 we can prove that this graph does indeed have a diameter of 2.



[Bonus] Sub-Experience Seven: A Matter of Life and Death