

Problem Set 2

- Ch. 5 R5.1)
- $n=1, k=2, r=1$
 - $n=2, k=2, r=2$
 - $n=2, k=2, r=2$
 - $n=2, k=6, r=3$

- R5.2)
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|-------------|-------------|---------|-------------|
| a. i. $n=2$ | b. i. $n=2$ | c. i. 2 | d. i. $n=2$ |
| ii. $n=2$ | ii. $n=3$ | ii. 3 | ii. $n=3$ |
| iii. $n=3$ | iii. $n=1$ | iii. 3 | iii. $n=2$ |

- R5.12)
- $C5 \Rightarrow$ C is in a, c, e, o, g, and it is an odd #
Black
 - $B2 \Rightarrow$ Not in a, c, e, o, g, and even #
Black
 - $A4 \Rightarrow$ A is in a, c, e, o, g, and 4 is an even #
White
 - $H7 \Rightarrow$ H is not in a, c, e, o, g, and 7 is an odd #
White

- Ch. 6 R6.6)
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|------|------|-------|------|------|------|
| a. 1 | b. 1 | c. 10 | d. 0 | e. 1 | f. 2 |
| 2 | 3 | 9 | 1 | 2 | 4 |
| 3 | 5 | 8 | 2 | 4 | 6 |
| 4 | 7 | 7 | 3 | 8 | 8 |
| 5 | 9 | 6 | 4 | | |
| 6 | | 5 | 5 | | |
| 7 | | 4 | 6 | | |
| 8 | | 3 | 7 | | |
| 9 | | 2 | 8 | | |
| | | | 9 | | |
| | | | 10 | | |