

HW6

- ▶ Coloretto (變色龍)
- ▶ Requirements:
 - Write a program which lets users play Coloretto
 - Use only basic rules
 - Write an AI to play Coloretto as a phantom user
 - Number of players: 4
- ▶ Bonus:
 - Number of players: 3–5

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- ▶ There are 77 cards including:
 - Each color have 9 coloretos ($7 \times 9 = 63$)
 - There are 10 “+2” card (the score +2)
 - There are 3 colorful coloretos (can act any color)
 - 1 end cards, put at the no 16 counter count.

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- ▶ In each round, the player can only choose:
 - Draw a coloretto and put at some row
 - Get the coloretto on a row and end this round
- ▶ Each row can only put 3 coloretto and each row can only get by one player at each round.
- ▶ If someone draw a end card, then after this round we will calculate the score.

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- ▶ The score calculation is shown below:
 - Sort the count of each colors, the top 3 colors get positive points, others get minus points
 - The different count get different point:
 - 1 : 1
 - 2 : 3
 - 3 : 6
 - 4 : 10
 - 5 : 15
 - 6 or more : 21

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- For example the sorted count is 654321, +2card 2, colorful 1, the score is $21+21+10 - 6 - 3 - 1 + 2 \times 2$.
- ▶ The highest score player is winner!

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- ▶ Rules:

- <http://goo.gl/YuslhT>

- ▶ Play online:

- http://www.marquand.net/games_coloretto/
- <http://www.marquand.net/coloretto>

- ▶ Video:

- <https://www.youtube.com/watch?v=CHIL-Ff32dY>
- https://www.youtube.com/watch?v=_huhDSJDnQE