$$(5-8) \Rightarrow$$
 colour B $(17-20) \Rightarrow$ colour E
 $(9-12) \Rightarrow$ colour C $(218-24) \Rightarrow$ colour F
 $(13-16) \Rightarrow$ colour D $(25-28) \Rightarrow$ colour G
 $(29-32) \Rightarrow$ colour H

constraints for part 1:

(i) No two colours are at single position at a time.

eg: 1,5 ⇒ not possible since

1⇒A at first position

5⇒B at first position

1,6,11,16 ⇒ Possible

1 => A at position 1 6 => B at position 2 11 => C at position 3 16 => D at position 4

(ii) No repeatition of colours is possible

eg: 1,2,3,4 => not possible since

all position are

filled with colour A

1,6,11,16 => possible since

different colours.

constraint for part 2 °.

(i) No two colours are placed at single Position.

eg: 1,5,9,13 \(\Rightarrow\) not possible

1 \(\Rightarrow\) A at position 1

5 \(\Rightarrow\) B at position 1

9 \(\Rightarrow\) c at position 1

13 \(\Rightarrow\) D at position 1

1,2,3,4 => possible

1 => A at position 1

2 => A at position 2

3 => A at position 3

4 => A at position 4

Here Repetition is allowed, so only

one constraint is enough.