Session 2

1. (0.5 points) Provide the order and size of the four obtained undirected graphs($g'B$, $g'D$, g_{wB}, and g_{wD}).

2. (1 point) Justify the strategy used to obtain g_w
B and g_{wD}.

3. (0.5 points) Justify whether the directed graphs obtained from the initial exploration of the crawler (g_B and g_D) can have more than one weakly connected component and strongly connected component, and explain why. Indicate the relationship with the selection of a single seed.

4. (0.5 points) Also justify the relationship between the previous results and the number of connected components in the undirected graphs (g_B and g_D).

5. (0.5 points) Compute the size of the largest connected component from g'_B and g'_D. Which one is bigger? Justify the result.