**אחזור מידע מטלה מספר 2**

**מגישים:** אריק זגדון -

דביר בן סימון -

שנהב חזי -

**חלק א**

**פיתרון שאלה 1:**

|  |  |  |
| --- | --- | --- |
| Q | Engine 1 | Engine 2 |
| 1 | **Recall = 0.17**  **Precision = 1.0** | **Recall = 0.0**  **Precision = 0.0** |
| 2 | **Recall =0.17**  **Precision = 0.5** | **Recall = 0.2**  **Precision = 0.5** |
| 3 | **Recall = 0.34**  **Precision = 0.67** | **Recall = 0.4**  **Precision = 0.67** |
| 4 | **Recall = 0.5**  **Precision = 0.75** | **Recall = 0.6**  **Precision = 0.75** |
| 5 | **Recall = 0.5**  **Precision = 0.6** | **Recall = 0.6**  **Precision = 0.6** |
| 6 | **Recall = 0.5**  **Precision = 0.5** | **Recall = 0.8**  **Precision = 0.67** |
| 7 | **Recall = 0.67**  **Precision = 0.57** | **Recall = 1.0**  **Precision = 0.71** |
| 8 | **Recall = 0.67**  **Precision = 0.5** | **Recall = 1.0**  **Precision = 0.62** |
| 9 | **Recall = 0.84**  **Precision = 0.55** | **Recall = 1.0**  **Precision = 0.55** |
| 10 | **Recall = 1.0**  **Precision = 0.6** | **Recall = 1.0**  **Precision = 0.5** |

**פיתרון שאלה 2:**

**פיתרון שאלה 3:**

**א+ב.**

|  |  |
| --- | --- |
| **Dictionary** | **Posting List** |
| course | 2 |
| dog | 1,3 |
| help | 4 |
| information | 2 |
| listen | 1 |
| love | 1,3 |
| music | 1 |
| pick | 4 |
| road | 4 |
| retrieval | 2 |
| roll | 1,3 |
| stone | 1,3,4 |
| throw | 3 |

**ג.**

|  |  |
| --- | --- |
| **Rank** | **Frequency** |
| 1 | 3 |
| 2 | 2 |
| 3 | 2 |
| 4 | 1 |
| 5 | 1 |
| 6 | 1 |
| 7 | 1 |
| 8 | 1 |
| 9 | 1 |
| 10 | 1 |
| 11 | 1 |
| 12 | 1 |

**ניתן לראות לפי הגרף כי אכן ההתנהגות זהה לפי חוק ZIPY.**