**Выдачи по запросам:**

1-й запрос.

0 0 0 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 2 0 0 1 (0)

2-й запрос.

1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 (0)

3-й запрос.

2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1

**IDCG :**

1: 2/log2(2) + 2/log2(3) + 2/log2(4) + 1/log2(5) + 1/log2(6) = 5,079

2: 2/log2(2) + 2/log2(3) + 2/log2(4) + 1/log2(5) = 4,692

3: 2/log2(2) + 1/log2(3) + 1/log2(4) + 1/log2(5) = 3,561

**NDCG:**

1: (1/log2(5) + 1/log2(10) + 1/log2(38) + 2/log2(45) + 1/log2(48))/5,079 = 0,288

2: (1/log2(2) + 1/log2(3) + 1/log2(4) + 1/log2(18) + 1/log2(68))/4,692 = 0,54

3: (2/log2(2) + 1/log2(3) + 1/log2(46) + 1/log2(58))/3,561 = 0,83