Name _____ Surname _____ Code _____

```
{
    "title": "Harry Potter and the
            Philosopher's Stone"
    "author": "Joanne Rowling"
    "price": 19.95
    "publication_date": "26/06/1997"
    "number_of_pages": 223
    "summary": "The story begins with an
            orphaned baby, Harry Potter,
            being left on the doorstep of
            his abusive aunt and uncle,
            the Dursleys. On his eleventh
            birthday, Harry discovers that
            he is a wizard and has been
            accepted to Hogwarts School
            of Witchcraft and Wizardry. At
            Hogwarts, he makes friends
            with Ron Weasley and
            Hermione Granger."
}
```

```
{
    "title": "The Lord of the Rings - The
            Fellowship of the Ring"
    "author": "John Ronald Reuel Tolkien"
    "price": 45.50
    "publication_date": "29/07/1954"
    "number_of_pages": 423
    "summary": "The story begins in the
            Shire, a peaceful and idyllic
            land inhabited by hobbits.
            Bilbo Baggins, a hobbit,
            celebrates his eleventy-first
            birthday and decides to leave
            the Shire, leaving his magical
            ring, the One Ring, to his
            nephew Frodo. Unknown to
            Frodo, the ring is a powerful
            and dangerous artifact
            created by the dark lord
            Sauron to control
            Middle-earth."
}
```

```
{
    "title": "A Song of Ice and Fire - A
            Game of Thrones"
    "author": "George Raymond Richard
            Martin"
    "price": 65.00
    "publication_date": "01/08/1999"
    "number_of_pages": 694
    "summary": "The Stark family, led by
            Eddard "Ned" Stark,
            resides in the northern
            region of Winterfell. When
            King Robert Baratheon
            visits Winterfell, he asks
            Ned to become the Hand of
            the King, the most powerful
            position in the realm.
            Despite his reluctance, Ned
            accepts to investigate the
            death of the previous Hand,
            Jon Arryn."
}
```

"title" → Text   **"author"** → Text   **"price"** → Double   **"publication_date"** → Date   **"number_of_pages"** → Integer
"summary" → Text

For each of the following queries and each returned document, compute its score based on the following rules:
- If a word match is found, assign a score of 0.5 to each word **based on the query and its properties**.
- If a range match is found, assign a score of 0.25 to the match **based on the query and its properties**.
- If a document is **not returned**, instead of computing its score, type an **X** in the corresponding cell.
- **N.B.** If a document is returned with no score, a score of **0** is to be assigned.

	Document #1	Document #2	Document #3
Query #1			
Query #2			
Query #3			
Query #4			
Query #5			

QUERY #1
GET /books/_search
```
{
  "query": {
    "match": {
      "summary": "story"
    }
  }
}
```

QUERY #2
GET /books/_search
```
{
  "query": {
    "range": {
      "number_of_pages": {
        "gte": 100,
        "lte": 500,
        "boost": 4.0
      }
    }
  }
}
```

QUERY #3
GET /books/_search
```
{
  "query": {
    "range": {
      "publication_date": {
        "lte": "now - 25Y /Y"
      }
    }
  }
}
```

QUERY #4
GET /books/_search
```
{
  "query": {
    "bool": {
      "must": [
        {"match": {"summary": "story"} }
      ],
      "filter": [
        {"range": {"number_of_pages": {"gte": 300 } } },
        {"range": {"price": {"gte": 30.00 } } }
      ]
    }
  }
}
```

QUERY #5
GET /books/_search
```
{
  "query": {
    "bool": {
      "must_not": [
        { "match": {"author": "Mark"} }
      ],
      "should": [
        {"match": {"summary": "story"} }
      ]
    }
  }
}
```