**Code Report**

What is the point or purpose or use of the code

The code is about checking if a person getting prizes for some

olympiad based on their category their rank falls into. The olympiad will

gives prizes according to this convention :

Cash prize: 1 - 10

Gold: 10 - 50

Silver: 50 - 250

Bronze: 250 - 500

Merit Certificate: 500 - 1000

Participation Certificate: 1000 and above

Let’s say person A gets a rank of 693, he/she will get a Merit Certificate and Participation Certificate.

Relation of Code to the Function

We can use the binary search function to search for a value in a list, which has values in a numerical order with an upper and lower bound. I have used this to search where does the person’s rank fall within the categories. The edits that have been done to the function is that the return values have respectively been switched to True/False.

Use of code in future

The world is switching to the internet in several fields which were done offline. One of these fields are competitions. Online competitions are much easier to attend, less prone to error

And better in many other ways. Ranking and prizes are a fundamental feature of any competition. The code written above can be used to rank and assign prizes for a participant.

Participants can easily get their rank in seconds, and this can be automated for millions of participants.