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Assignment Set: 1 **Problem No.** 3

Problem Statement: Write a program to generate 1,00,000 random strings of capital letters of length 10 each, without repetitions and store them in a file in character mode one string per line.

Solution Approach:

A random number generator is used to generate ascii code between 65(A) - 90(Z). It's called 10 times to generate 10 random character (A-Z) and combined to form a string.

Structured Pseudocode:

```
for i=1 to 100000 do:
    s = ""
    for j=1 to 10 do:
        temp = rand()%26 + 65
        append ascii character for value temp to string s
    end for
    print s to the file
end for
end program
```

Results:



Discussion

An instance of generated file is shown.

Separate files containing commented source code: source code assignment5.c is attached.