

- Trace the operation of the program for $N = 100$ and $M = 10$, depicting the state of the *hash* array after each new element is inserted.

Assume that the function *rand_int*(1,100) returns the number obtained by adding one to number formed by consecutive 2-digit substrings in the decimal expansion of $\pi - 3$:

14 15 92 65 35 89 79 32 38 46 26 43 38 32 79 50 28 84 19 71 69 39 93 75 10
58 20 97 49 44 59 23 07 81 64 06 28 62 08 99 86 28 03 48 25 34 21 17 06 79