MD.EBRAHIM ID: 17-22038

public class Middle Square PRNG & private static volatile long seed = 675248; private static synchronized long next seed () { long squared = seed \* seed; String squaredStr = String format (" To 012d, squared String middle = squared Str. substring (3,9); seed = Long. partselong (middle); taturn seed; 30 mm bion wildus public staticulant generate (int min, int man) long num = next seed (1) (0 = i tai) ret return min+ (int) (num de (man-min+1)); Jong num = next seed ();

Toturn min + (num of 1000000)/1000 000 of or

Toturn min + (num of 1000000)/1000 (max-min);

public static double generate (double min, double min, double min, double min, double long num = next seed (); return min+ (num 0/0/00000) /1000000.0 \* (man-min). Long secons = seed is seed; Static class pandomthread extends Thread & String Type; public Random Through (string type) 30000000 This. type = type; galet = saft public void run () } 0992 mut 27 System. out. println ("Thread [" threet "] stanted: "); for (int i=0; 125) ittlyn = mon pro (switch (type) pro bomun) (tri) + nino mul case "int" -> System-out-println ("[int] + generate (2,100). case "float" > System.out. prainin ("[Float]", generate (1.05)); Case " Double" -> System.out. printin ("[double]"+ generate 001 010 mult) + (100 100) 13

MINDA STEPPING

Thread - sleep (100); } catch (Internupted Exception e) } } system.out. printin (" Thread["+ type + "] finished."); public static void main [string [] args) { Thread t, = new RandomThread ("int"); Thread to = new Random Thread ("float") Threed to = new Random Thread ("double"); ta. start (); to. start (); t3. start ();