| CURS #5  |
|--|
|  |
| • / • • • • • • • • • • • • • • • • • •  |
| Agi note de letaré -> MIHAI PRUMESCU   |
|  |
| UNDE Suntil  SUNTEM I Hativ = function = function caculable  Calculable coursive Masiai Turing   |
| Every of the second of the   |
| SUNTER PRIMARIO POLICE   |
| calculable / coursive / Masiai lating  |
|  |
|  |
| Manual Dilla hard M. T.  |
| VREAU Problème core nu sunt rez de Masini Turiz  |
|  |
| MASINA TURING UNIVERSACT   |
|  |
|  |
| 0 +  |
| Codificone pt M, (x), Me(x), M, (x).   |
| Misin Turing   |
| - 11(v)  |
| $U(x)$ $x=\langle i, i, i, j, i, j,$ |
|  |
| India  |
| program  |
| - I pm:  |
|  |
| (Ann to Rook)  |
| U smuleage Mi(N) (Aror= & Barck)   |
| / franest  |
|  |

FUNCTIE CARE MU BATE FI CALCULATA

DE OMASINA TORIN-

$$W(x) = \begin{cases} 0 & \text{dam} & M_X(x) = 1 \\ 1 & \text{altfel} \end{cases}$$

$$\frac{1}{W(n) \neq f_n} + \frac{1}{f_n(n)}$$

PRACTE VERIFICAREA CORECTITUDINI UNUI PROGRAM

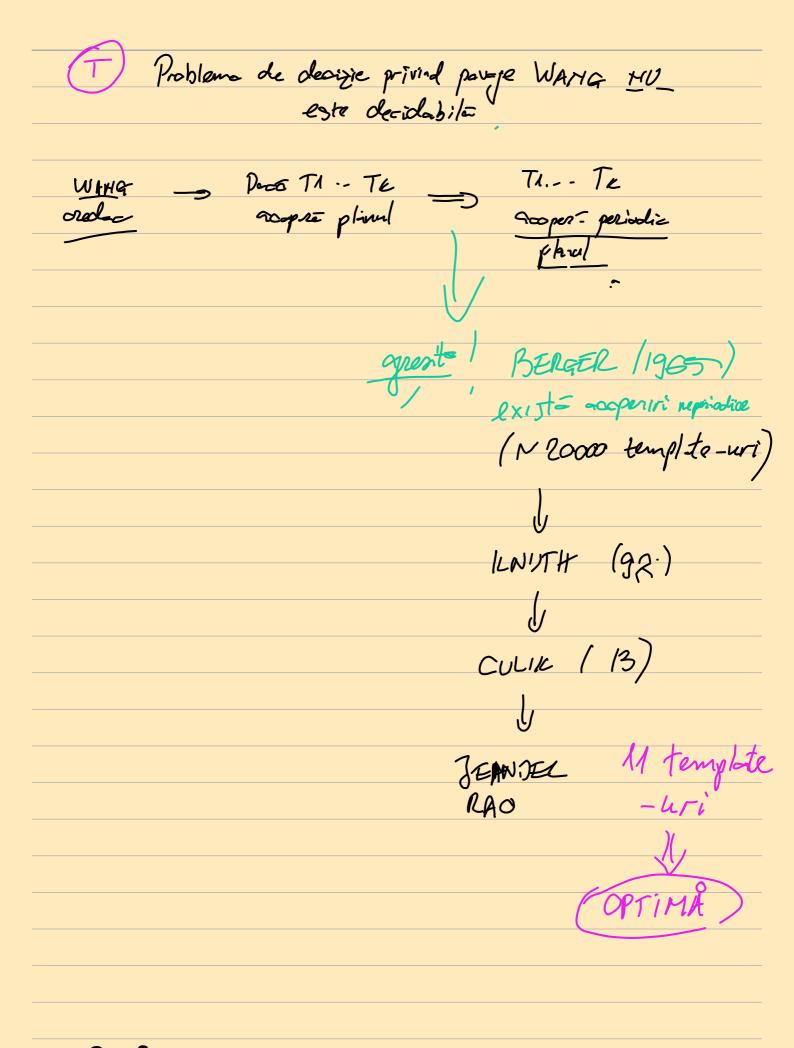
| PRISTRAL NU POATE FI FACUTA CU UN ACA.  |
|---|
|   |
| METODE MODEL RUNTIME  |
| FORMALE CHEEKING VERIFICATION   |
|   |
|   |
| PROBLEMA OPRIRII  |
|   |
|   |
| PROBLEMA INPOT  |
| DE DECIZIE \ f(input) = 0/1   |
| DA MU   |
| . —   |
| PB INPOT i,X  |
| OPRIRI  |
| DE DECIS Se opreste san un Milx)  |
| late-un or first  |
| l'atr-un ar finit<br>de paoi ?  |
| $HALI(24,x>) = \begin{cases} 1 & d-\bar{a} & m(x) \neq 7 \\ 0 & aHyd \end{cases}$ |
| HALT (29x>) = 2 + 00-00 1/10 +1   |
| 1 alfel   |
|   |
| K= 3 2= <1, x> Mi(x) & opreste }  |
|   |
|   |
| Fundra HALT nu este partial recursiva-<br>(nu par ficalcode a M.T.)               |
| I (na pal ficalc de a M.T.)   |
|   |

DEM. Pp co exists a MIT MARIT core adadesque HALIT CRÉET O MIT MW core folossette MHALT Ca subrutire si calculação W - input & - calcula HALT (20,00) -> 0/1 HALT (CX, XX) = 0 return 1 HALT (LL, X>) = | SIMULEZ MX (X)  $U(LX X^2)$ Pace Ma (d) # of return 1
else return 0 Claim Mw --> W INTERESANT (MATEMATIC) J HAMKING. (1005) MIASNIKOL' pot regalse HALT pe majoritates in pret-vilor!

(DEPENDENT de model)

(nu pote ( de 's=

| de 0 MiT.                                    |
|--|
|  |
| EXEMPLU "CONCRET" DE PROBLEMA MEDECIDALKA    |
|  |
| PAVATE WANT HAO WANK                         |
| PAVAJE WANG HAO WANG<br>(1961)               |
|  |
|  |
| Se dan Hr Sint de                            |
| Se dan Hr Sint de<br>template-uri            |
| 3  |
| T1, T2, Tx                                   |
|  |
| De decis Pot pava tot planul                 |
| De decis Pot pava tot planul  CM TI, - TE OI |
|  |
| Echivelet                                    |
|  |
|  |
|  |
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|  |
|  |
| O matada de a 1000                           |
| O metoda de partire  (periodras)             |
| (periodice)                                  |
|  |
|  |
|  |



DACA POT ROTI

5-A CREZUT NR MINIM=2

| FORMELE                                   | (PENROSE    |   |
|---|-------------|---|
| 2022                                      | NR MINIM    | =/  |
|   | (EINSTEIN   | MONOTHE   |
| PAVAJECE WANG                             | a Simuleaza | MASINI TURING   |
| [a] b   c   d  [a] b'   c   d  [s']  [s'] | 5           | $ \begin{array}{c} a \\ b \\ c \\ c \\ c \\ c \\ s' \end{array} $ |
|   |             |   |

