- ce e sulliminat trebuie

porticulaizat de la pl. la

NOTITE WAS 12: iamp

METODA BACKTRACKING

11 Generales permutailes

Fama generalà a alg. de backtracking

def bkt(K):

for w in range (mink, maxk+1)

SEKJ = D

if 3 [1],... SEKI este solutio partialà:

if soil ... sokt este solutie: preludate SCII. SEKI else:

6Kt1K+11

Forma pentru generalea parmutarila

def 6Kt 1K1 global 5, n

for a in nange 11, m+11:

3K1=2

if siki not in siliki:

if K == m:

print 1"5 [1: K+1]

else:

brt (R+11

m = imt 1 imput 1 " n = " | 1 S = [0] + [m+1] butINI

2. Generalea alanjamenteler

$$m=5$$
 $m=3$

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ae. alg does ca schimbam K==m

3. Generalea combinatifal

$$C_{5}^{3} = \frac{5!}{3! \cdot 2!} = \frac{60}{6} = 10$$

$$C_{m}^{m} = \frac{A_{m}^{m}}{m!} = 3 \quad A_{m}^{m} = m! \cdot C_{m}^{m}$$

$$3 = C_{11} \quad V_{1} \quad V_{1} \dots J_{3}$$

$$dof \quad bk + 1 k 1: \quad global \quad s, m, m$$

$$for \quad 0 \quad im \quad parge \quad (s \in k - 1 J, m + 1): \quad s \in k J = 2v$$

$$if \quad k = = m! \quad punt 1^{4} \quad s \in 1: k + 13$$

$$else: \quad bk + 1 k + 1$$

```
4. Des compundes unui numb notidal ca suma de numero naturale nonule
  m=4
 A+A+A+A
  1+1+2
  1+2+1
   1+3
   2+1+1
   2+2
    3+1
    4
    wef bkt 1K1:
         fosel sin:
            for o in sampe (1, n-k+21:
                                             + Set. case poste si cu
mult impuratation
                  if sum 1501: K+1] =m:
                           if sum (SC1: KH3) == m:
                                    print ( 4 3 C1 : K+1 ] , Sep = 4 4)
                             else :
                                  bkt (K+1)
  5. plata unei sune cu anumite monede
         del 6kt [k]:
              glosal SimiPiM
               for v in sange 10, PII MCKJ+11:
                    SEKJ = 0
                    if sum ( ESI ] + Mai for im sample (1, KHI) ] == P:
                            if sum 1 csc17 4 nas -4 - 1 == P:
                                    punt (*5 T1: K+1)
                            else:
If Kem:
```

LKt(KH)

exit10) - queste tot programul

Took me. cu cife distincte care au suma cifreld C=3

la Grija la 120,210,30, trobuie luat carul un o po por Araba

to the large 1 st of the large

Charles Valley But has

1 9/4

1 4 ...

The second second second

Control of the property