NUMERYCZNEJ (L) 8 lutego 2021 r.

Pierwszy termin

## Pracuj samodzielnie!!!

Imię i nazwisko:	Julita Omon	
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SCHEMAT HORNERA to spoods no dividence wieldnesses.  $L_{\infty}(x) = a_{1}x^{n} + a_{n-1}x^{n-1} + a_{n-2}x^{n-2} + \dots + a_{1}x^{n} + a_{0}$ 

 $= \times (on \times^{h-1} + on \times^{h-1} + on) + oo =$ 

 $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + c_{0}$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + c_{0}$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + c_{0}$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + c_{0}$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + c_{0}$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + c_{0}$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + c_{0}$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + c_{0}$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + c_{0}$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$   $= \times (\times (... \times (\times c_{n+1} + c_{n-1}) + ... + c_{1})$ 

WZASADNIENIE, ZE SCHEMAT HORNERT JEST ALGORNIMEM NUMERYCZNIE POPRAWNYM.

Schemist Hornero to algorytm, ktory poswala no deielemie wielomianow pred durinican (x-a). Mext tex sposobern oblicación wantości wielomionu pray wykorzystowa minimelnei hości mozen: mozen: i=0 i=0 i=0 i=0 i=0

UNDELEDINJMY BLEDY: ao (1+po) + O1 x (1+d1)(1+po)(1+ps)+...+Oux (1+d1)...(1+du)(1+po)...

Pamiętaj o zasadach nadsylania rozwiazań!

=  $\sum_{i=0}^{l} x^{i} \circ (1+p_{i}) \prod_{j=1}^{l} (1+d_{j})$   $|\alpha_{i}| \leq 2^{-t} |p_{i}| \leq 2^{-t}$ 

Niech (1+B) to maksymalny btpd (1+di)
Niech (1+a) to maksymalny btpd (1+di)

 $\underset{i=0}{\overset{M}{\geq}} x^{i} \circ i \underset{j=0}{\overset{i}{\prod}} (J+\beta_{i}) \underset{j=1}{\overset{i}{\prod}} (J+d_{i}) \leqslant \underset{i=0}{\overset{M}{\geq}} x^{i} \circ i . (J+\beta)^{i} (J+d_{i})$ 

Praymuijmuj, 2e (1+E) = (1+d)(1+Pb) /E/52.2-t Zotem

= x' oi (1+b)'(1+d)' = = x' oi (1+e)' = = oi [x.(1+e)] =

= 2 xiei y otrymujemy 20tem mato 20loursony wywik dla meto 20loursonych danych.

Schemot Hornero jest sotem objorytmen numeryanie poprownym.