Sieve of Eratootheris - la find prime number. lost (infinite) of numbers. 23 45 5 7-8 9 10 11 15 13 10 15 16 17 18 19 20 21 22 23 24 24 26 24 28 29 30 31 32 33 34 35 36 37 38 39 40 41 47 43 44 48 46 47 At 48 sunove number divisible by 2, then 3, then 5 --7 (define (sieve s) (stream-car s) (cons-stream (Sixere. Cstream-filter (lambda (x) (not laivisible) x (stream-car s))) (Stream-(dr S)))). 7 (define primes (cieve (integers-strarting-from 2))). 7 (stream-ref 5 primes). 2 3 5 7 11 13. 7 (stream-ref 100 primes) 547. 7 (define primes (sheam-filter prime? (integers-startly-from 3D)) (consi-thream 2 this also works smallest divisor procedure

y(define (prime 22 x)
(define (iter ps) ((lond (1 > (square (stream-(ar ps)) x) -true).

((divisible) x) (stream-(an ps)) false).

(else (liter (stream-(dr ps)))). (pter primes)). , (define primes (cons-stream 2 (stream-fitten prime2? (integers-starting-from 3)))). -15tream-ref 5 primer) 7(Arean-ref 100 primer) Defining buines with by chuking for prime? ness. prime 2 - ehedring purmeners using burnes we've found till now Can generate à infinite extream riving each other priones had 2. promise initially.

The numbers we are checking divisiblity with and

When when your attentions

The numbers we generated Steeren of guesses to compute square mod 7 (define (sqrt-stream 2) coefine guesses (cons-stream 1.0. (stream-map Clambda (guess) (cort-Proprove gues 2)).
guesses))). guesses).

> (define sqrt2) (grt-sheam 2)). > (1.0. # (proc--- >). > (stream-ref 1 sqrt2s) 15 > (stream-ref & sqrt 2s) > (stream-ref & sqrt 2s) 1.414213562373095 Moging withdraw amounts for joint accounts

fair way - nound suchin).

One care withdraw money if they just had and

the other still hasht June doort go well with the solution baración Haskell Function: Map from values in a domain D to range ? Type signature gives contract for a function List in hankell is writter in []. Input: an integer, list of characters. Int, (char). duffut: (Char)common Words :: Int -> ((Char) -> (Char) In Haskell, internally all functions take only one infute at a lane was the second way of writing. This is ealled currying. They supply functions forward.