

Problem 1.1

a.

T= A B B A B B C A C C A B A B A C B C C A B A B

P= A B A b

A b a b

A b a b

A B A b

A B a b

A b a b

A b a b

A B a b

A b a b

A b a b

A B A B

11 alignments, 17 comparisons

b.

T= A B B A B B C A C C A B A B A C B C C A B A B

P= A B A B

a b a B

A B A B

a b A B

a b a B

a b a B

a B A B

A B A B

7 alignments

16 comparisons

c.

T= A B B A B B C A C C A B A B A C B C C A B A B

P= A B A b

a b a B

A B A B

a b A B // good suffix

a b a B

a b a B

a b a B

a b a B

a B A B

A B A B // good suffix 2

9 alignments  
16 comparisons

d

T= A B B A B B C A C C A B A B A C B C C A B A B  
P= A B A B  
a b a B  
A B A B // bad character  
a b a B // good suffix 2  
a b a B // bad character  
a B A B // bad character  
A B A B // good suffix 2

6 alignments  
14 comparisons

Problem 1.2

- a.  
(-)((\*)(+)((\*)(+4 3)2)5)5) ((+)((\*) 5 10)3)
- b.  
(42 'div'2) 'gcd' (30 'mod'16)

Problem 1.3

a.

PrecedenceLevel	Operator	Associativity
0	\$	Right
2		Right
3	&&	Right
6	+, -	Left
7	*, /	Left
8	^	Right

b. Since the operator is non associative the programm will give out an error because it wouldn't know what to do with it.

For example,  
variable x== variable y>= variable z  
In this case haskell doesnt know how to execute this expression above, therefore it will spit out an error.

