

# Appendix A

## Example code output

This is a compilation of output from selected examples. Some of these examples requires external input from e.g. STDIN, for such examples the interaction with the program is also shown.

### Chapter 1

```
hello.pl (page 9)
Hello World
hello.pl (page 9)
```

### Chapter 3

```
hsort.pl (page 54)
http://cbbp.thep.lu.se
http://www.biology.lu.se/education/courses/advanced-courses/bioinformatics-and-sequence-analysis-75
http://www.createhealth.lth.se/
http://www.lumi.lu.se
http://www.lu.se/
mailto:;#97;#116;#116;#105;#97;#115;#64;#116;#104;#101;#112;.#108;u.se
/~mattias/images/category_holiday_16.png
/~mattias/images/working-16.png
/~mattias/include/style.css
publications/
teaching/binp13
teaching/fytn06
hsort.pl (page 54)
```

## Chapter 4

```

_____ splitfasta.pl (page 58) _____
This FastA sequence comes from the species RATTUS NORVEGICUS
and has accession number Q62671.
_____ splitfasta.pl (page 58) _____

```

```

_____ splitwhite.pl (page 59) _____
Array numbers contain: 1 2 5 6 8
_____ splitwhite.pl (page 59) _____

```

```

_____ map1.pl (page 62) _____
JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC
_____ map1.pl (page 62) _____

```

```

_____ map2.pl (page 62) _____
1.73205080756888 3 3.16227766016838
_____ map2.pl (page 62) _____

```

```

_____ subend.pl (page 66) _____
$it = 11
$it = 5.5
_____ subend.pl (page 66) _____

```

```

_____ subpar.pl (page 67) _____
The value was: 11
The value was: 5.5
_____ subpar.pl (page 67) _____

```

```

_____ subsum.pl (page 67) _____
The sum is: 9
The sum is: -1
The sum is: 5
_____ subsum.pl (page 67) _____

```

```

_____ subsums.pl (page 68) _____
The sum is: 10
The sum is: 10
_____ subsums.pl (page 68) _____

```

```

_____ sumfn.pl (page 68) _____
The sum is: 10
Half the sum is: 5
_____ sumfn.pl (page 68) _____

```

\_\_\_\_\_ sumnfn.pl (page 69) \_\_\_\_\_

The sum of the 5 elements is: 10

\_\_\_\_\_ sumnfn.pl (page 69) \_\_\_\_\_

\_\_\_\_\_ sumnfn2.pl (page 69) \_\_\_\_\_

The first list had 3 elements and the sum was: 18

The second list had 3 elements and the sum was: 18

\_\_\_\_\_ sumnfn2.pl (page 69) \_\_\_\_\_

\_\_\_\_\_ sumnfn3.pl (page 70) \_\_\_\_\_

The first list had 5 elements and the sum was: 10

The second list had 3 elements and the sum was: 18

\_\_\_\_\_ sumnfn3.pl (page 70) \_\_\_\_\_

\_\_\_\_\_ popchop.pl (page 72) \_\_\_\_\_

0 1 2 3 4

\_\_\_\_\_ popchop.pl (page 72) \_\_\_\_\_

\_\_\_\_\_ sum.pl (page 81) \_\_\_\_\_

Sum = 15, Average = 2.5

\_\_\_\_\_ sum.pl (page 81) \_\_\_\_\_

\_\_\_\_\_ sum2.pl (page 81) \_\_\_\_\_

Sum = 15, Average = 2.5

\_\_\_\_\_ sum2.pl (page 81) \_\_\_\_\_

## Chapter 5

\_\_\_\_\_ ref3.pl (page 98) \_\_\_\_\_

```
A: GCA GCC GCG GCT
C: TGC TGT
D: GAC GAT
E: GAA GAG
F: TTC TTT
G: GGA GGC GGG GGT
H: CAC CAT
I: ATA ATC ATT
K: AAA AAG
L: CTA CTC CTG CTT TTA TTG
M: ATG
N: AAC AAT
P: CCA CCC CCG CCT
Q: CAA CAG
R: AGA AGG CGA CGC CGG CGT
S: AGC AGT TCA TCC TCG TCT
T: ACA ACC ACG ACT
V: GTA GTC GTG GTT
W: TGG
Y: TAC TAT
```

\_\_\_\_\_ ref3.pl (page 98) \_\_\_\_\_

## Chapter 6

matrix1.pl (page 114)

```

2 5 6 -7 9
1 4 -6 7 10
0 2 3 3 0
1 1 4 2 8

```

matrix1.pl (page 114)

bp\_ex4.pl (page 138)

```

===== ID: ref|XP_005022418.1|=====
=> Identities: 84.44%
Query:   1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRRTTIDLTEDENQYSIG   60
          +LDAPSQIE KDVTDTTALITW KPLAEI+GIELTYG KDVPGRRTTIDL+EDENQYSIG
Subj:   772 KLDAPSQIEAKDVTDTTALITWSKPLAEIEGIELTYGPKDVPGDRRTTIDLSEDENQYSIG   831

Query:   1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT   30
          NL+P TEYEV+LISRRGDM S+P KE F T
Subj:   772 NLRPHTEYEVTLISRRGMESDPVKEVFVT   801

===== ID: ref|XP_006137248.1|=====
=> Identities: 84.44%
Query:   1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRRTTIDLTEDENQYSIG   60
          +LDAPSQIEV+DVTDTTALITWFKPLAEID +EL+YG KDVPGRRTTIDL+EDE+QYSIG
Subj:   804 KLDAPSQIEVRDVTDTTALITWFKPLAEIDDMELSYGPKDVPGDRRTTIDLSEDESQYSIG   863

Query:   1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT   30
          NLKP TEYEV+LISRRGDM+S+P KETF T
Subj:   804 NLRPHTEYEVTLISRRGMTSDPVKETFVT   833

===== ID: ref|XP_005022417.1|=====
=> Identities: 84.44%
Query:   1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRRTTIDLTEDENQYSIG   60
          +LDAPSQIE KDVTDTTALITW KPLAEI+GIELTYG KDVPGRRTTIDL+EDENQYSIG
Subj:   772 KLDAPSQIEAKDVTDTTALITWSKPLAEIEGIELTYGPKDVPGDRRTTIDLSEDENQYSIG   831

Query:   1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT   30
          NL+P TEYEV+LISRRGDM S+P KE F T
Subj:   772 NLRPHTEYEVTLISRRGMESDPVKEVFVT   801

===== ID: ref|XP_005022415.1|=====
=> Identities: 84.44%
Query:   1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRRTTIDLTEDENQYSIG   60
          +LDAPSQIE KDVTDTTALITW KPLAEI+GIELTYG KDVPGRRTTIDL+EDENQYSIG
Subj:   772 KLDAPSQIEAKDVTDTTALITWSKPLAEIEGIELTYGPKDVPGDRRTTIDLSEDENQYSIG   831

Query:   1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT   30
          NL+P TEYEV+LISRRGDM S+P KE F T
Subj:   772 NLRPHTEYEVTLISRRGMESDPVKEVFVT   801

===== ID: ref|XP_005022416.1|=====
=> Identities: 84.44%
Query:   1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRRTTIDLTEDENQYSIG   60
          +LDAPSQIE KDVTDTTALITW KPLAEI+GIELTYG KDVPGRRTTIDL+EDENQYSIG
Subj:   772 KLDAPSQIEAKDVTDTTALITWSKPLAEIEGIELTYGPKDVPGDRRTTIDLSEDENQYSIG   831

```

```

Query:      1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT      30
           NL+P TEYEV+LISRRGDM S+P KE F T
Subj:      772 NLRPHTEYEVTLISRRGMESDPVKEVFVT      801

===== ID: gb|EOA99266.1|=====
=> Identities: 84.44%
Query:      1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG      60
           +LDAPSQIE KDVTDTTALITW KPLAEI+GIELTYG KDVPGRDRTTIDL+EDENQYSIG
Subj:      772 KLDAPSQIEAKDVTDTTALITWSKPLAEIEGIELTYGPKDVPGDRTTIDLSEDENQYSIG      831

Query:      1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT      30
           NL+P TEYEV+LISRRGDM S+P KE F T
Subj:      772 NLRPHTEYEVTLISRRGMESDPVKEVFVT      801

===== ID: ref|XP_005022414.1|=====
=> Identities: 84.44%
Query:      1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG      60
           +LDAPSQIE KDVTDTTALITW KPLAEI+GIELTYG KDVPGRDRTTIDL+EDENQYSIG
Subj:      772 KLDAPSQIEAKDVTDTTALITWSKPLAEIEGIELTYGPKDVPGDRTTIDLSEDENQYSIG      831

Query:      1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT      30
           NL+P TEYEV+LISRRGDM S+P KE F T
Subj:      772 NLRPHTEYEVTLISRRGMESDPVKEVFVT      801

===== ID: gb|KFQ40359.1|=====
=> Identities: 84.44%
Query:      1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG      60
           +LDAPSQIE KDVTDTTALITW KPLAEI+GIELTYG KDVPGRDRTTIDL+EDENQYSIG
Subj:      454 KLDAPSQIEAKDVTDTTALITWSKPLAEIEGIELTYGPKDVPGDRTTIDLSEDENQYSIG      513

Query:      1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT      30
           NL+P TEYEV+LISRRGDM S+P KE F T
Subj:      454 NLRPHTEYEVTLISRRGMESDPMKEVFVT      483

===== ID: ref|XP_005498448.1|=====
=> Identities: 83.33%
Query:      1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG      60
           +LDAPSQIE KDVTDTTALITW KPLA+I+GIELTYG KDVPGRDRTTIDL+EDENQYSIG
Subj:      741 KLDAPSQIEAKDVTDTTALITWSKPLADIEGIELTYGPKDVPGDRTTIDLSEDENQYSIG      800

Query:      1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT      30
           NL+P TEYEV+LISRRGDM S+P KE F T
Subj:      741 NLRPHTEYEVTLISRRGMESDPMKEVFVT      770

===== ID: gb|KFQ87172.1|=====
=> Identities: 84.44%
Query:      1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG      60
           +LDAPSQIE KDVTDTTALITW KPLAEI+GIELTYG KDVPGRDRTTIDL+EDENQYSIG
Subj:      456 KLDAPSQIEAKDVTDTTALITWSKPLAEIEGIELTYGPKDVPGDRTTIDLSEDENQYSIG      515

Query:      1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT      30
           NL+P TEYEV+LISRRGDM S+P KE F T
Subj:      456 NLRPHTEYEVTLISRRGMESDPMKEVFVT      485

```

bp\_ex4.pl (page 138)

bp\_ex5.pl (page 140)

Database: All non-redundant GenBank CDStranslations+PDB+SwissProt+PIR+PRF excluding environmental s

Query Name: 1TEN:\_

==== ID: ref|XP\_003264097.2|====

=> Identities: 98.89%

Query: 1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG 60  
 RLDAPSQ+EVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG  
 Subj: 802 RLDAPSQEVKDVDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG 861

Query: 1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 30  
 NLKPDTEYEVSLISRRGDMSSNPAKETFTT  
 Subj: 802 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 831

==== ID: ref|XP\_009186466.1|====

=> Identities: 98.89%

Query: 1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG 60  
 RLDAPSQ+EVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG  
 Subj: 802 RLDAPSQMEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG 861

Query: 1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 30  
 NLKPDTEYEVSLISRRGDMSSNPAKETFTT  
 Subj: 802 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 831

==== ID: ref|XP\_009186465.1|====

=> Identities: 98.89%

Query: 1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG 60  
 RLDAPSQ+EVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG  
 Subj: 802 RLDAPSQMEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG 861

Query: 1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 30  
 NLKPDTEYEVSLISRRGDMSSNPAKETFTT  
 Subj: 802 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 831

==== ID: ref|XP\_007966465.1|====

=> Identities: 98.89%

Query: 1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG 60  
 RLDAPSQ+EVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG  
 Subj: 802 RLDAPSQMEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEENQYSIG 861

Query: 1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 30  
 NLKPDTEYEVSLISRRGDMSSNPAKETFTT  
 Subj: 802 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 831

==== ID: ref|XP\_007966464.1|====

=> Identities: 98.89%

```

Query: 1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG 60
      RLDAPSQ+EVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG
Subj: 802 RLDAPSQMEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG 861

```

```

Query: 1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 30
      NLKPDTEYEVSLISRRGDMSSNPAKETFTT
Subj: 802 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 831

```

```

===== ID: ref|XP_007966462.1|=====
=> Identities: 98.89%

```

```

Query: 1 RLDAPSQIEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG 60
      RLDAPSQ+EVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG
Subj: 802 RLDAPSQMEVKDVTDTTALITWFKPLAEIDGIELTYGIKDVPGDRTTIDLTEDENQYSIG 861

```

```

Query: 1 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 30
      NLKPDTEYEVSLISRRGDMSSNPAKETFTT
Subj: 802 NLKPDTEYEVSLISRRGDMSSNPAKETFTT 831

```

bp\_ex5.pl (page 140)

bp\_ex7.pl (page 142)

CLUSTAL W (1.81) multiple sequence alignment

```

ACT1_FUGRU/1-375      -----MEDEIAALVVDNGSGMCKAGFAGDDAPRAVFPISVGR
ACT2_FUGRU/1-375      -----MDDEIAALVVDNGSGMCKAGFAGDDAPRAVFPISVGR
ACT3_FUGRU/1-375      -----MEDEVASLVVDNGSGMCKAGFAGDDAPRAVFPISVGR
5H1A_FUGRU/1-423      MDLRATSSNDSNATSGYSDTAAVDWDEGENATGSGSLPPELSYQIITSFLGALILCSI
5H1B_FUGRU/1-416      -----MEGTNNTTGWT-----HFDSTSNRTSKSFDEEVKLSYQVVSFLLGALILCSI
5H1D_FUGRU/1-379      -----MELDNNSLDYFSSN--FTDIPSNTTVAHWTEATLLGLQISVSVVLAIVTLATM
                                *      .      .      :      :

```

```

ACT1_FUGRU/1-375      PRHQGVMVGMGQK-----DSYVGDEAQS--KRGILTLKYPIEHGIVTNWDDMEKIWHH
ACT2_FUGRU/1-375      PRHQGVMVGMGQK-----DSYVGDEAQS--KRGILTLKYPIEHGIVTNWDDMEKIWHH
ACT3_FUGRU/1-375      PRHQGVMVGMGQK-----DSYVGDEAQS--KRGILTLKYPIEHGIVTNWDDMEKIWHH
5H1A_FUGRU/1-423      FGNSCVVAIALERSLQNVANYLIGSLAVTDLMVSVLVLPMAALYQVLRWTLGQDICDL
5H1B_FUGRU/1-416      FGNACVVAIALERSLQNVANYLIGSLAVTDLMVSVLVLPMAALYQVLRWTLGQIPCDI
5H1D_FUGRU/1-379      LSNAFVIATIFLTRKLHTPANFLIGSLAVTDLVSVLVMPISIVYTVSKTWSLQIVCDI
      :  *:. :      :  :*. * :      .:*:. . : : . * : .

```

```

ACT1_FUGRU/1-375      TFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRT
ACT2_FUGRU/1-375      TFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRT
ACT3_FUGRU/1-375      TFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRT
5H1A_FUGRU/1-423      FIALDVLCCCTSSILHLCVIALDRYWAITDPIDYVNRKTPRRAAVLISVTWLVGFSISIPP
5H1B_FUGRU/1-416      FISLDMCCTSSILHLCVIALDRYWAITEPIDYMKRTPRRAAVLISVTWLVGFSISIPP
5H1D_FUGRU/1-379      WLSSDITFCTASILHLCVIALDRYWAITDALEYSKRRTMRAAVMVAVVVISISISMPP
      :  ::  .. . * . * . * : :      .* . .* : : : : * .

```

```

ACT1_FUGRU/1-375      TGIVMDS----GDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTA

```

```

ACT2_FUGRU/1-375      TGIVMDS----GDGVHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTA
ACT3_FUGRU/1-375      TGIVMDS----GDGVHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTA
5H1A_FUGRU/1-423      MLGWRS-----AEDRANPDACIISQDPG-YTIYSTFGAFYIPLILMLVLYGRIFKAARFR
5H1B_FUGRU/1-416      MLIMRSQPSSMAEDRANSKQCKITQDPW-YTIYSTFGAFYIPLTLMLVLYGRIFKAARFR
5H1D_FUGRU/1-379      LFWRQ-----AKAHEELKECMVNTDQISYTYLSTFGAFYVPTVLLIILYGRIVVAARSR
                        . . . : :. :. * : * * : :

ACT1_FUGRU/1-375      EREIVRDIKEK-----LCYVALDFEQEMGTAASSSSLEKSYELPD-----GQ
ACT2_FUGRU/1-375      EREIVRDIKEK-----LCYVALDFEQEMGTAASSSSLEKSYELPD-----GQ
ACT3_FUGRU/1-375      EREIVRDIKEK-----LCYVALDFEQEMATASSSSLEKSYELPD-----GQ
5H1A_FUGRU/1-423      IRKTVKKTEKAKASDMCLTLPSPAVFHKRANGDAVSAEWKRGYKFKPSSPCANGAVRHGEE
5H1B_FUGRU/1-416      IRRTVRKTEKKKVSDTCLALSPAMFHRKTPGDAHGKSWKRSVEPRP-LPNVNGAVKHAGE
5H1D_FUGRU/1-379      IFKTPSYSGKR-----FTTAQLIQTSAGSSLCS-----LNSASNQEAH
                        . : . : : : .

ACT1_FUGRU/1-375      VITIGNERFRCPEALFQPSFLGMESCGIHETTYNSIMKCDVDIRKDLYANTVLSGGTTMY
ACT2_FUGRU/1-375      VITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLSGGTTMY
ACT3_FUGRU/1-375      VITIGNERFRCPEALFQPSFLGMESSGIHETTYNSIMKCDVDIRKDLYANTVLSGGTTMY
5H1A_FUGRU/1-423      MESLEIIEVNSNSKTHLPLPNTP-QSSSHENINEKTTGTRRKIALARERKTVKTLGIIMG
5H1B_FUGRU/1-416      GESLDIIEVQSNRNLPLPNTPGTVPLFENRHEKATETKRKIALARERKTVKTLGIIMG
5H1D_FUGRU/1-379      LHSGAGGEGGGS-----PLFVNSVKVKLADNVLE-----RKRLCAARERKATKTLGIILG
                        : . * : : : : : : * :

ACT1_FUGRU/1-375      PGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESG
ACT2_FUGRU/1-375      PGIADRMQKEITSLAPTTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESG
ACT3_FUGRU/1-375      PGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESG
5H1A_FUGRU/1-423      TFIFCWLPFFIVALVLPFCAENCYMPEWLGAVINWLGYSNSLLNPIIYAYFN-KDFQSAF
5H1B_FUGRU/1-416      TFILCWLPFFIVALVMPFCQESCFMHWLKDVINWLGYSNSLLNPIIYAYFN-KDFQSAF
5H1D_FUGRU/1-379      AFIICWLPFFVVTLVWAICKECSFDP-LLFDVFTWLGYLNSLINPVIYTVFN-DEFKQAF
                        . * : :.*. . * . * : :.. :. .... :

ACT1_FUGRU/1-375      PSIVHRKCF--
ACT2_FUGRU/1-375      PSIVHRKCF--
ACT3_FUGRU/1-375      PSIVHRKCF--
5H1A_FUGRU/1-423      KKILRCKFHRH
5H1B_FUGRU/1-416      KKIIKCHFCRA
5H1D_FUGRU/1-379      QKLIK--FRR-
                        . : :

```



# Appendix B

## Common Perl mistakes

*This is taken from the document “Introduction to Perl”<sup>1</sup>*

1. Testing ”all-at-once” instead of incrementally, either bottom-up or top-down.
2. Optimistically skipping print scaffolding to dump values and show progress.
3. Not running with the perl -w switch to catch obvious typographical errors.
4. Leaving off \$ or @ or % from the front of a variable, or omitting & when invoking a subroutine in Perl 4.
5. Forgetting the trailing semicolon.
6. Forgetting curly braces around a block.
7. Unbalanced (), {}, [], ” ”, ’ ’, ‘ ‘, and sometimes <>.
8. Mixing ’ ’ and ” ”, or / and \.
9. Using == instead of eq, != instead of ne, = instead of ==, etc. (’White’ == ’Black’) and (\$x = 5) evaluate as (0 == 0) and (5) and thus are true!
10. Using ”else if” instead of ”elsif”.
11. Not chopping the output of backquotes ‘date’ or not chopping input:

```
print "Enter y to proceed: ";
$ans = <STDIN>;
chop $ans;
if ($ans eq 'y') { print "You said y\n";}
else { print "You did not say 'y'\n";}
```

12. Putting a comma after the file handle in a print statement.

---

<sup>1</sup><http://www.cclabs.missouri.edu/things/instruction/perl/perlcourse.html>

13. Forgetting that Perl array subscripts and string indexes normally start at 0, not 1.
14. Using \$\_, \$1, or other side-effect variables, then modifying the code in a way that unknowingly affects or is affected by these.
15. Forgetting that regular expressions are greedy, seeking the longest match not the shortest match.