Szybki start w HL++ dla znających R

R	HL++
Podstawowe	**iostream, io.h**
library(nazwa)	#include <nazwa.h>
<-	=
#	//
if else	if else
for (i in 1:10)	for (i=1; i<=10; i++)
while	while
cat	cout<<
readline	cin>>
setwd, dir.create	chdir, mkdir
file.remove, file.rename	remove, rename
Napisy	**text.h**
paste	+
tolower, toupper	to_lower, to_upper
substr	subtext
toString	itot, dtot
Daty	**date.h**
date()	today()
as.Date("2018-01-15")	d("2018-01-15")
Zmienne losowe	**prob.h (biblioteka zewnętrzna)**
runif, rnorm	uniform_sample, normal_sample
dunif, dnorm	uniform_pdf, normal_pdf
punif, pnorm	uniform_cdf, normal_cdf
qunif, qnorm	uniform_cdf_inv, normal_cdf_inv
Wektory	**vector.h**
c(1,2,3,4)	c(1,2,3,4), vi(4,1,2,3,4)
1:10, seq	$(1,10), seq
rep, rep_len	rep, replen, repeach
A[1]	A(1)
length	length

R	HL++
Macierze, DataFrame	**matrix.h, table.h**
matrix(0,5,2)	zeros(5,2)
matrix(1,5,2)	ones(5,2)
matrix(runif(10),5,2)	rand(5,2)
matrix(rnorm(10),5,2)	randn(5,2)
View	display
dim	resizec
rm	free
nrow	nrow
ncol	ncol
A[1,1]	A(1,1)
A$kolumna	A[„kolumna"]
A$nowa_kol	A.newcol(„nowa_kol")
B <- A[indeks,]	B = A.row(indeks)
B <- A[,indeks]	B = A.col(indeks)
A[indeks,] <- B	A.setrow(indeks,B)
A[,indeks] <- B	A.setcol(indeks,B)
rownames	rownames
colnames	colnames
cbind(A,B)	A|B
rbind(A,B)	A&B
sum	sum
mean	mean
median	median
min, max	min, max
abs	abs
quantile	quantile
var, sd	var, stdev
cor	cor
hist	hist

R	HL++
cumsum	cumsum
sum(A[warunek])	sumif(A,warunek)
funkcja(A)	forall(A,funkcja)
t	tr
rev	fliplr
diag	diag
outer	outer
+, -, *, /	+, -, *, /
A%*%B	mul(A,B)
drop(A%*%B)	scmul(A,B)
solve	lineqns, inv
det	det
any, all	any, all
sort, order	sort, order
unique	unique
match	match
%in%	iselement
intersect	setintersect
setdiff	setdiff
union	setunion
setequal	setequal
which	find
levels	levels
cut	cut
table	pivot
tapply	apply
select, filter	select, filter
sample_n, sample_frac	sample_n, sample_frac
group_by, summarise	summarise
write.table, read.table	writetxt, readtxt

R	HL++
Bazy Oracle	**sql.h**
deGetQuery	sql_statement
zapis do tabeli	ora_loader
kasowanie tabeli	drop
Metody numeryczne	**numproc.h**
uniroot	fzero
deriv	derivative
integral	integral
optim	fmins, fminu
nls	fits, fitu
Modelowanie	**score.h**
funkcje kodujące	f_B, f_C, f_M
lm, predict	lm_par, lm_val
glm, predict	logistic_par, logistic_val
IV, AR, CAP, KS	IV, AR, CAP, KS
Wykresy	**gplot.h**
png	open
plot	plot
dev.off	close
Strony HTML	**html.h**
openPage	html
hwrite	htext, htable, hmatrix, href
hwriteImage	image
kod JavaScript	js
closePage	save
Język R	**rrun.h**
typy R-owe	RString, RDate, RMatrix, RTable
source("plik.R")	source("plik.R")
użycie zmiennej w R	use(zmienna_R)
uruchomienie kodu R	eval("kod R")