**Appendix I: Example data set - xmpl**

The data set could be loaded from the R package {eRm} by following code:

*#library(eRm)*

*#data(xmpl)*

Complete Data:

"","V1","V2","V3","V4","V5","V6","V7","V8","V9","V10","V11","V12","V13","V14","V15","V16","V17","V18","V19","V20","V21","V22","V23","V24","V25","V26","V27","V28","V29","V30"

"1",1,0,0,1,1,1,0,1,0,0,1,0,1,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,0,0

"2",1,1,1,1,1,0,1,1,0,1,0,1,1,1,1,0,1,1,0,0,1,0,0,1,0,0,0,0,0,1

"3",0,1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,1,1,1,1,1,0,0,1,0,1,0,0,0

"4",1,1,1,0,1,1,0,1,1,1,1,1,1,1,0,0,0,1,1,1,1,0,1,1,0,1,0,0,0,0

"5",1,0,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,1,1,1,1,1,1,1,0,0

"6",1,1,1,1,0,0,0,0,0,0,0,1,0,1,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0

"7",1,1,1,1,0,1,1,1,1,1,0,0,1,1,1,1,0,0,0,0,0,0,0,1,0,1,0,0,1,0

"8",1,1,1,0,1,0,1,0,1,1,1,1,1,1,0,1,1,1,1,1,0,1,0,0,0,1,0,0,0,0

"9",1,1,0,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,1,0,0

"10",1,1,1,0,1,0,1,0,1,1,0,0,1,1,1,0,1,0,1,0,1,0,0,0,0,1,0,0,0,0

"11",1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,1,1,0,1,1,1,1,1,1,1,0

"12",0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"13",1,1,1,1,1,1,1,1,1,0,1,0,1,1,1,1,0,1,0,1,0,1,1,0,0,0,1,1,1,1

"14",1,1,1,0,0,1,1,1,1,0,0,0,0,0,0,0,0,0,1,0,0,1,0,0,0,0,0,0,1,0

"15",1,1,1,1,1,1,1,0,1,1,1,1,1,1,1,1,0,1,1,1,1,1,1,1,0,1,0,1,0,0

"16",0,1,0,0,1,0,1,1,0,1,0,1,1,0,1,0,1,0,1,0,1,0,0,0,0,0,1,0,0,0

"17",1,1,1,0,0,1,1,0,0,1,1,1,0,1,1,0,0,0,0,0,0,0,0,1,0,1,0,0,0,0

"18",1,1,1,1,1,1,0,1,1,1,0,0,1,1,1,1,1,1,1,1,1,1,0,0,1,0,1,0,0,1

"19",1,1,1,0,1,1,1,1,1,1,1,0,1,1,1,1,1,0,1,1,1,0,0,0,1,0,0,0,0,1

"20",1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,0,0

"21",1,1,1,0,1,1,1,0,1,1,1,0,1,1,1,1,0,1,1,1,1,1,1,1,0,0,0,0,0,0

"22",0,1,0,0,1,1,0,1,1,0,1,1,0,0,0,0,1,1,0,1,0,0,1,0,0,0,0,0,0,0

"23",1,1,0,1,1,1,1,1,1,1,0,0,1,0,1,1,1,0,1,1,1,0,1,1,1,1,1,0,1,1

"24",1,1,1,1,1,0,1,0,0,0,1,1,1,0,0,0,0,0,0,1,0,0,0,1,0,0,0,1,0,0

"25",1,1,0,1,1,1,1,1,1,0,0,0,1,0,0,1,0,0,0,0,0,0,0,1,0,0,0,0,0,0

"26",1,1,1,1,1,0,1,1,1,1,1,0,1,1,1,0,1,1,1,0,0,1,1,1,1,0,0,0,0,0

"27",1,1,1,1,1,0,0,1,1,0,1,0,0,1,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,1

"28",1,1,1,1,1,1,1,0,1,0,0,1,1,1,0,1,1,1,1,0,1,0,0,1,0,1,0,0,0,0

"29",1,0,1,0,0,1,0,1,1,1,1,0,1,1,0,0,0,0,1,1,1,0,1,1,0,1,0,0,1,0

"30",1,1,1,0,1,0,1,1,1,1,1,0,1,1,0,0,1,0,1,0,1,0,0,0,1,0,0,0,1,0

"31",1,1,1,1,1,0,0,0,0,1,0,0,0,1,1,0,0,0,1,1,1,1,1,0,0,0,0,0,0,0

"32",1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,0,0,1,1,1,1,0,0,0,0,0,1,1,0

"33",1,1,1,1,1,1,1,0,1,1,1,1,1,1,0,0,1,1,1,0,0,1,0,1,0,1,0,0,1,0

"34",1,0,0,0,0,0,1,0,1,1,1,1,1,1,1,1,1,0,0,1,0,1,0,0,0,0,0,0,0,0

"35",0,0,0,0,1,1,0,1,0,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"36",1,1,1,1,1,1,0,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,0

"37",0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"38",1,1,1,0,0,1,0,0,1,0,0,0,0,0,1,0,1,0,0,0,0,1,0,0,0,0,0,0,0,0

"39",1,0,1,0,0,0,0,0,1,0,0,0,1,0,0,0,1,0,1,0,1,0,0,1,0,1,0,1,0,1

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"41",1,1,1,1,0,0,0,1,0,1,1,0,0,0,0,0,0,0,0,0,0,1,0,0,1,1,0,1,0,0

"42",1,1,1,1,1,1,1,1,0,0,1,0,0,0,0,0,1,1,0,0,0,1,0,0,1,1,1,1,0,0

"43",1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,0,1,1,1,1,1,1,1,0,0,0,1

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"46",1,0,0,1,0,0,0,0,1,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

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"53",1,1,1,1,1,0,1,1,1,0,0,1,1,1,1,0,1,1,0,0,0,1,0,1,1,1,0,0,0,0

"54",1,0,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,0,1,1,1,1

"55",1,0,1,1,0,0,1,0,1,0,0,0,0,0,1,0,0,0,0,0,0,1,0,0,0,0,0,0,0,0

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"57",1,1,0,1,1,1,0,0,0,1,1,0,1,0,0,1,0,0,0,0,1,0,0,0,0,0,0,1,0,0

"58",0,1,1,1,1,1,1,0,1,0,0,0,0,1,1,0,1,0,0,0,0,1,0,0,0,1,0,1,0,0

"59",1,0,0,0,1,1,1,0,0,1,0,0,0,1,1,0,0,1,1,0,0,0,0,0,0,0,0,0,0,0

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"66",1,0,0,0,1,1,0,1,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"67",1,0,1,1,0,1,0,0,1,0,0,0,1,0,0,0,0,0,1,0,1,0,0,0,0,0,0,0,1,0

"68",1,0,1,0,0,0,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"69",0,1,1,1,1,1,1,0,0,1,1,1,0,1,0,0,1,0,1,1,0,0,0,0,0,0,0,0,0,0

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"71",1,0,1,1,1,1,1,1,1,1,0,0,1,0,1,0,0,1,0,1,0,0,1,1,0,0,0,0,0,1

"72",1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,1,1,0,0,1,1,1,1

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"74",1,1,1,1,1,1,0,1,1,1,0,0,0,0,1,1,1,1,1,1,0,0,1,1,0,1,0,1,0,0

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"82",1,1,0,0,0,1,0,1,1,0,0,1,0,0,1,0,0,0,1,0,1,0,1,0,0,0,0,0,0,0

"83",1,1,1,1,1,1,1,1,1,1,1,1,1,0,0,1,1,1,0,1,1,0,1,0,1,0,0,0,0,1

"84",1,1,1,1,0,1,1,1,0,0,1,1,0,0,0,0,1,1,0,0,1,0,0,1,0,0,1,0,0,0

"85",0,1,0,0,0,0,0,1,0,1,0,0,0,1,0,1,0,1,0,0,0,0,0,0,0,0,0,0,0,0

"86",0,1,1,0,1,0,1,1,1,1,1,1,0,0,1,1,1,0,1,1,1,0,0,0,1,0,0,0,0,0

"87",1,0,1,1,1,1,0,1,1,0,0,0,0,1,0,1,1,0,1,0,0,0,1,0,1,0,0,0,0,0

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"89",1,0,1,1,0,0,0,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,0

"90",1,1,1,1,1,1,1,0,1,1,1,1,0,1,1,1,1,1,0,0,1,1,1,1,1,0,0,0,0,1

"91",1,0,1,1,0,1,1,0,1,1,1,0,1,0,0,0,0,0,1,0,0,0,0,1,0,0,0,0,0,0

"92",1,1,1,1,1,1,1,1,1,0,1,1,1,1,1,1,1,0,0,1,1,0,0,1,0,1,1,0,0,1

"93",0,0,1,1,0,1,0,0,0,0,0,0,0,1,0,0,1,1,1,0,1,1,0,0,0,0,0,0,0,0

"94",1,0,1,0,1,0,1,0,0,1,1,1,0,1,1,0,1,0,0,1,0,1,1,0,1,1,0,0,0,0

"95",1,1,1,1,0,0,0,0,1,0,0,0,0,0,1,0,1,1,0,0,0,1,0,0,1,1,0,0,0,0

"96",1,1,0,1,1,1,1,1,1,1,1,0,1,1,1,1,1,1,1,1,1,1,0,1,1,1,1,1,1,1

"97",1,1,1,1,1,1,1,1,1,1,1,1,0,1,0,1,1,1,0,1,0,1,1,0,1,0,0,1,0,0

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"108",1,1,1,1,1,1,0,0,1,1,0,0,0,0,0,1,0,0,0,0,0,0,0,0,1,0,0,0,0,0

"109",1,1,1,1,1,1,1,0,0,1,1,0,0,0,0,0,1,0,0,0,0,0,1,0,1,1,1,1,0,0

"110",1,1,1,0,1,1,0,1,1,1,0,1,0,1,0,0,0,1,0,0,0,0,1,0,0,1,0,0,0,0

"111",0,1,1,1,0,1,0,0,0,0,1,1,0,0,0,1,1,1,0,0,1,0,0,0,1,1,1,0,0,0

"112",1,1,1,0,0,1,0,0,1,0,0,0,0,0,1,0,1,0,1,0,1,0,1,0,0,1,1,0,0,0

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"116",1,1,1,1,1,1,0,0,0,0,1,1,1,0,1,1,1,0,0,0,0,0,0,0,1,1,0,0,0,0

"117",1,1,1,1,1,1,1,1,1,0,1,1,0,1,1,0,1,1,1,1,0,0,1,1,0,1,1,1,0,1

"118",1,0,0,0,1,1,0,0,0,1,0,0,1,1,1,1,0,0,0,0,0,0,1,0,0,0,1,1,0,0

"119",0,0,0,0,1,1,0,0,0,0,0,1,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"120",0,1,1,1,1,1,1,1,0,1,1,1,1,1,1,1,1,1,1,0,1,1,0,0,0,1,0,1,0,0

"121",1,0,1,1,1,0,1,1,1,1,1,0,1,1,0,1,0,1,1,1,1,0,0,0,1,1,0,0,0,0

"122",0,0,1,0,1,1,0,0,0,0,0,0,0,0,0,0,1,0,0,0,1,0,0,0,0,0,0,0,0,0

"123",1,0,1,1,1,1,1,1,1,1,1,0,1,0,0,0,1,1,1,1,0,1,1,1,0,1,1,0,1,0

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"209",1,0,1,1,1,0,0,1,0,1,0,0,1,0,0,0,1,1,0,0,0,1,1,0,0,0,0,0,0,0

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"249",1,1,0,0,1,1,1,1,1,1,0,0,0,1,0,1,0,0,0,1,1,0,0,0,0,0,0,0,0,0

"250",1,1,1,0,1,1,1,1,0,0,1,1,1,1,1,1,1,0,1,0,0,0,0,0,1,0,0,0,0,0

"251",0,1,1,1,1,0,1,0,1,0,0,1,1,1,1,0,1,0,1,0,0,1,1,0,0,0,0,0,0,0

"252",1,1,1,1,1,0,1,1,0,1,1,1,1,1,1,1,1,0,0,1,1,0,0,0,1,0,0,0,0,0

"253",1,1,1,1,1,1,1,0,1,1,1,1,1,1,1,0,1,1,1,0,1,0,1,1,1,1,1,1,1,0

"254",1,0,1,1,1,1,1,1,0,1,1,1,1,0,1,1,0,1,1,1,1,0,1,0,1,0,1,1,0,0

"255",1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,1,1,0,1,1,1,0,1,0,0,0,1

"256",1,1,1,0,0,1,1,0,1,1,0,0,0,0,0,1,0,1,0,1,1,0,0,0,0,0,0,0,1,0

"257",1,1,0,0,1,0,1,1,0,1,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"258",1,1,0,1,0,0,1,1,1,1,1,1,0,1,0,0,1,1,0,0,0,1,1,1,0,0,1,0,0,0

"259",1,1,1,1,1,1,1,0,1,0,0,1,0,0,0,1,1,1,1,1,1,1,1,0,1,0,0,0,1,0

"260",1,1,1,0,1,1,0,1,0,1,1,0,0,0,1,1,0,1,1,0,0,1,0,0,1,1,0,0,0,0

"261",1,0,0,0,0,1,1,1,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,1,0,1,0,0,0

"262",1,1,0,1,1,1,1,0,1,0,1,0,0,0,0,1,1,0,1,0,0,1,0,0,0,0,0,0,0,0

"263",1,1,0,0,1,0,0,1,0,1,1,0,1,0,1,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0

"264",1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,1,0,1,1,0,1,0,1,1,1,1,1,1,0,0

"265",1,1,1,0,1,1,0,0,0,0,1,0,0,0,0,0,1,0,0,1,0,0,1,0,0,1,1,0,0,0

"266",1,1,1,1,0,1,1,0,1,1,1,1,1,0,1,1,1,1,1,1,1,0,1,0,0,0,1,0,1,0

"267",0,1,0,0,0,0,0,0,0,0,1,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"268",1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,0,1,1,0,0,1,0,0,0,0,1,0,0,0

"269",1,1,1,1,1,0,1,1,1,0,1,1,0,1,1,1,1,1,0,0,1,1,1,0,1,1,0,0,1,1

"270",1,1,1,1,0,0,1,1,0,1,1,1,0,0,1,1,1,1,1,0,0,1,1,0,1,1,0,1,0,0

"271",0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"272",1,1,1,1,1,0,0,0,1,0,1,0,0,0,1,1,0,0,0,0,0,1,0,0,1,0,0,0,0,0

"273",0,1,1,1,0,0,1,0,1,0,0,0,0,0,0,1,0,1,0,0,0,0,0,0,0,0,0,0,0,0

"274",1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,0,1,0,0,1,1,1,1,0,0,1

"275",1,1,1,0,1,1,1,1,0,1,1,0,1,0,1,1,1,0,1,0,0,0,1,0,0,0,0,0,0,0

"276",0,1,1,0,0,0,0,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"277",1,0,0,0,1,0,0,0,0,0,0,0,1,0,0,0,0,1,0,0,1,0,0,0,0,0,0,0,0,0

"278",1,1,0,0,1,1,1,1,1,1,1,1,1,1,1,0,0,1,1,1,1,1,1,0,1,0,0,0,0,0

"279",1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,0,1,1,1,1,0,0,1,1,1,1,0,0,1,1

"280",1,1,1,1,1,1,1,1,1,1,1,0,1,1,1,0,0,1,1,1,0,1,1,1,1,1,1,0,1,0

"281",1,1,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0

"282",1,1,1,1,1,1,0,1,1,1,0,1,1,1,0,1,1,1,0,1,0,1,1,0,0,0,1,1,0,0

"283",1,1,1,1,1,0,0,1,1,0,0,0,1,1,1,1,1,1,1,1,0,1,1,0,1,1,0,1,0,0

"284",1,1,1,0,1,1,1,1,1,1,1,0,1,1,0,1,1,1,1,0,1,1,1,1,0,1,0,1,0,0

"285",1,1,1,0,0,0,0,0,1,0,0,0,1,0,1,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0

"286",1,1,1,1,0,0,1,0,0,1,0,1,0,0,0,1,0,1,0,0,0,1,1,1,0,0,0,0,0,0

"287",0,1,0,0,1,1,0,0,0,0,0,0,0,0,0,1,0,0,0,0,0,0,1,0,0,0,0,0,0,0

"288",1,1,0,1,0,1,0,0,1,0,0,0,0,0,0,0,1,1,0,1,0,0,0,0,0,0,1,0,0,0

"289",1,1,0,0,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,1,1,0,1,0,0,1,0,1,0

"290",1,1,1,0,1,1,1,1,0,1,1,0,1,0,0,1,0,0,0,0,0,0,0,1,1,0,1,1,0,0

"291",1,1,1,0,0,1,1,1,0,1,1,1,0,1,0,1,1,1,1,1,0,1,0,1,0,0,0,0,0,0

"292",1,1,0,1,1,0,0,1,0,0,1,1,0,1,0,0,1,0,1,0,0,1,0,1,0,0,0,0,0,0

"293",1,1,1,1,1,1,1,1,1,1,0,1,0,1,0,1,1,0,0,1,0,0,0,0,0,1,0,0,0,0

"294",1,1,1,1,0,0,1,0,0,0,0,1,0,1,1,0,1,1,0,1,0,0,0,0,1,0,1,0,0,0

"295",1,1,1,1,0,1,0,1,1,0,0,0,0,0,0,0,1,0,0,0,0,1,0,0,0,0,0,1,0,0

"296",1,1,1,1,1,1,1,1,1,1,1,0,0,1,1,1,1,1,0,1,1,1,1,1,1,1,1,0,0,0

"297",1,1,1,1,1,0,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,0,1,0,0,0,0,1,0,1

"298",1,1,0,1,0,1,1,1,1,0,1,1,0,0,0,1,1,0,1,0,0,0,1,1,0,0,0,0,0,0

"299",1,1,1,1,1,1,0,1,0,1,0,0,0,0,1,1,1,0,0,0,1,0,0,0,0,0,0,0,1,0

"300",1,1,0,1,1,0,1,1,0,1,1,0,1,0,0,1,0,0,0,0,0,1,1,1,0,0,0,0,0,0

Row sum of xmpl:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **row** | **row sum** | **row** | **row sum** | **row** | **row sum** |
| 1 | 8 | 101 | 13 | 201 | 12 |
| 2 | 17 | 102 | 18 | 202 | 15 |
| 3 | 22 | 103 | 18 | 203 | 16 |
| 4 | 19 | 104 | 18 | 204 | 18 |
| 5 | 26 | 105 | 9 | 205 | 9 |
| 6 | 7 | 106 | 17 | 206 | 25 |
| 7 | 16 | 107 | 26 | 207 | 13 |
| 8 | 18 | 108 | 10 | 208 | 10 |
| 9 | 26 | 109 | 15 | 209 | 11 |
| 10 | 14 | 110 | 13 | 210 | 14 |
| 11 | 27 | 111 | 13 | 211 | 20 |
| 12 | 1 | 112 | 12 | 212 | 9 |
| 13 | 22 | 113 | 14 | 213 | 0 |
| 14 | 10 | 114 | 3 | 214 | 21 |
| 15 | 24 | 115 | 7 | 215 | 15 |
| 16 | 12 | 116 | 14 | 216 | 16 |
| 17 | 12 | 117 | 23 | 217 | 6 |
| 18 | 22 | 118 | 11 | 218 | 10 |
| 19 | 20 | 119 | 4 | 219 | 15 |
| 20 | 27 | 120 | 21 | 220 | 24 |
| 21 | 20 | 121 | 18 | 221 | 13 |
| 22 | 11 | 122 | 5 | 222 | 23 |
| 23 | 23 | 123 | 21 | 223 | 13 |
| 24 | 12 | 124 | 5 | 224 | 20 |
| 25 | 11 | 125 | 22 | 225 | 22 |
| 26 | 20 | 126 | 7 | 226 | 11 |
| 27 | 11 | 127 | 15 | 227 | 4 |
| 28 | 18 | 128 | 22 | 228 | 20 |
| 29 | 16 | 129 | 19 | 229 | 25 |
| 30 | 16 | 130 | 4 | 230 | 12 |
| 31 | 13 | 131 | 19 | 231 | 12 |
| 32 | 21 | 132 | 22 | 232 | 9 |
| 33 | 20 | 133 | 18 | 233 | 14 |
| 34 | 13 | 134 | 9 | 234 | 21 |
| 35 | 5 | 135 | 23 | 235 | 22 |
| 36 | 27 | 136 | 19 | 236 | 8 |
| 37 | 1 | 137 | 5 | 237 | 19 |
| 38 | 8 | 138 | 13 | 238 | 18 |
| 39 | 11 | 139 | 11 | 239 | 11 |
| 40 | 15 | 140 | 11 | 240 | 9 |
| 41 | 11 | 141 | 17 | 241 | 21 |
| 42 | 16 | 142 | 23 | 242 | 9 |
| 43 | 25 | 143 | 10 | 243 | 20 |
| 44 | 8 | 144 | 9 | 244 | 5 |
| 45 | 11 | 145 | 25 | 245 | 14 |
| 46 | 4 | 146 | 7 | 246 | 22 |
| 47 | 11 | 147 | 13 | 247 | 20 |
| 48 | 20 | 148 | 12 | 248 | 13 |
| 49 | 14 | 149 | 28 | 249 | 12 |
| 50 | 6 | 150 | 7 | 250 | 16 |
| 51 | 20 | 151 | 10 | 251 | 14 |
| 52 | 18 | 152 | 8 | 252 | 18 |
| 53 | 18 | 153 | 22 | 253 | 25 |
| 54 | 27 | 154 | 17 | 254 | 21 |
| 55 | 7 | 155 | 14 | 255 | 24 |
| 56 | 16 | 156 | 10 | 256 | 12 |
| 57 | 11 | 157 | 27 | 257 | 7 |
| 58 | 13 | 158 | 16 | 258 | 16 |
| 59 | 9 | 159 | 22 | 259 | 19 |
| 60 | 9 | 160 | 14 | 260 | 15 |
| 61 | 22 | 161 | 13 | 261 | 7 |
| 62 | 18 | 162 | 25 | 262 | 12 |
| 63 | 7 | 163 | 3 | 263 | 9 |
| 64 | 14 | 164 | 17 | 264 | 24 |
| 65 | 19 | 165 | 12 | 265 | 11 |
| 66 | 6 | 166 | 21 | 266 | 21 |
| 67 | 9 | 167 | 10 | 267 | 3 |
| 68 | 4 | 168 | 26 | 268 | 19 |
| 69 | 13 | 169 | 20 | 269 | 22 |
| 70 | 21 | 170 | 7 | 270 | 19 |
| 71 | 16 | 171 | 12 | 271 | 1 |
| 72 | 27 | 172 | 20 | 272 | 11 |
| 73 | 12 | 173 | 11 | 273 | 7 |
| 74 | 19 | 174 | 4 | 274 | 24 |
| 75 | 14 | 175 | 10 | 275 | 15 |
| 76 | 13 | 176 | 13 | 276 | 3 |
| 77 | 14 | 177 | 21 | 277 | 5 |
| 78 | 18 | 178 | 17 | 278 | 20 |
| 79 | 12 | 179 | 14 | 279 | 24 |
| 80 | 27 | 180 | 21 | 280 | 24 |
| 81 | 15 | 181 | 21 | 281 | 3 |
| 82 | 10 | 182 | 21 | 282 | 20 |
| 83 | 21 | 183 | 15 | 283 | 20 |
| 84 | 14 | 184 | 7 | 284 | 22 |
| 85 | 6 | 185 | 18 | 285 | 7 |
| 86 | 16 | 186 | 20 | 286 | 12 |
| 87 | 13 | 187 | 9 | 287 | 5 |
| 88 | 26 | 188 | 20 | 288 | 9 |
| 89 | 5 | 189 | 12 | 289 | 22 |
| 90 | 22 | 190 | 9 | 290 | 15 |
| 91 | 11 | 191 | 12 | 291 | 17 |
| 92 | 22 | 192 | 24 | 292 | 12 |
| 93 | 9 | 193 | 20 | 293 | 16 |
| 94 | 15 | 194 | 11 | 294 | 13 |
| 95 | 11 | 195 | 13 | 295 | 10 |
| 96 | 27 | 196 | 17 | 296 | 24 |
| 97 | 21 | 197 | 14 | 297 | 9 |
| 98 | 22 | 198 | 10 | 298 | 14 |
| 99 | 5 | 199 | 14 | 299 | 13 |
| 100 | 11 | 200 | 12 | 300 | 13 |

Column Sum of xmpl:

|  |  |
| --- | --- |
| Column | Column Sum |
| V1 | 249 |
| V2 | 224 |
| V3 | 226 |
| V4 | 202 |
| V5 | 207 |
| V6 | 213 |
| V7 | 182 |
| V8 | 186 |
| V9 | 185 |
| V10 | 176 |
| V11 | 185 |
| V12 | 142 |
| V13 | 145 |
| V14 | 146 |
| V15 | 147 |
| V16 | 149 |
| V17 | 157 |
| V18 | 149 |
| V19 | 140 |
| V20 | 129 |
| V21 | 120 |
| V22 | 115 |
| V23 | 134 |
| V24 | 109 |
| V25 | 90 |
| V26 | 101 |
| V27 | 85 |
| V28 | 65 |
| V29 | 61 |
| V30 | 43 |