ENTREGA CLASE 22 PASO 1 A 3

Miguel Diaz

2022-06-06

```
#DATOS KEVIN (DATOS DEL EJEMPLO EN CLASE)
set.seed(888)
edad \leftarrow abs(round(rnorm(n = 1000,
                         mean = 67,
                         sd = 2)))
dap \leftarrow abs(round(rnorm(n = 1000,
                       mean = 30,
                       sd = 3), 1)) #diámetro a la altura del pecho
hibrido \leftarrow factor(rbinom(n = 1000,
                          size = 1,
                          prob = 0.6),
                   labels = c('h1', 'h2'))
rto \leftarrow abs(round(rnorm(n = 1000,
                        mean = 80,
                        sd = 5), 1)) #Rendimiento
cloA \leftarrow abs(round(rnorm(n = 1000,
                         mean = 320,
                         sd = 10)))
z <- 0.22 * edad - 0.12 * cloA + dap -8 #Variable artificial
pr <- 1/(1+exp(-z)) # Probabilidad de aborto</pre>
y = rbinom(1000, 1, pr) # Abortos
#DATOS NUEVOS (DATOS DE LA ENTREGA)
library(faux)
##
## *******
## Welcome to faux. For support and examples visit:
## https://debruine.github.io/faux/
## - Get and set global package options with: faux_options()
## *******
set.seed(1014306760)
dfa <- rnorm_multi(n = 1000,
            mu = c(67, 30, 30, 320),
            sd = c(2, 3, 5, 10),
            varnames = c('Edad', 'dap', 'rto', 'clolA'),
```

```
r = c(0.4, 0.6, 0.5, 0.6, 0.7, 0.8))
dfahibrido \leftarrow round(runif(n = 1000, min = 0, max = 1.2))
w <- 0.5 * dfa$clolA - 0.01 * dfa$dap - 0.6 * dfa$rto - 0.02 * dfa$Edad
dfa$abortos <- ifelse(w > 140, '1', '0') #1 es si aborto, 2 es no aborto
dfa$abortosn <- as.numeric(dfa$abortos)</pre>
dfa$abortosn
##
    [1] 1 0 1 1 1 0 1 1 0 1 1 1 0 1 0 1 0 0 0 0 0 0 1 1 1 1 0 0 0 0 0 0 1 1 1 1 1 1 1 0
##
   ##
  ##
  [149] 0 0 0 1 0 0 1 0 1 1 1 1 1 0 0 0 1 0 0 1 1 1 1 0 0 0 0 0 1 0 0 1 0 0 1
   [186] 1 1 1 1 1 1 1 0 0 0 1 0 1 1 0 0 0 1 1 0 0 0 1 0 1 1 1 0 1 0 1 1 1 0 1 0 1 1 1 0
##
##
  ## [260] 0 1 0 1 1 0 1 0 0 1 0 1 0 1 0 1 0 1 1 1 1 1 1 1 1 0 0 0 1 0 1 1 1 1 1 0
##
  [334] 0 0 1 1 0 1 1 1 0 0 0 1 0 0 1 0 1 1 1 0 0 0 0 1 1 0 1 1 1 0 0 1 0 0 0 1 1
## [371] 1 1 1 1 0 1 1 1 0 1 1 1 0 0 0 1 0 1 1 1 1 1 1 0 1 0 1 1 1 1 0 0 0 1 0 1
## [408] 1 1 0 0 0 1 0 0 1 1 1 1 1 0 1 0 0 1 0 1 0 1 0 1 1 0 1 0 1 0 1 1 0 1 0 1 0 1
##
 [445] 0 0 0 0 1 1 1 1 1 1 0 0 1 0 1 0 0 1 1 1 1 0 0 0 0 0 1 0 1 1 1 1 0 1 1 1 1 0 0 1
##
   [519] 1 0 0 1 1 1 0 1 0 1 0 1 1 1 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 0 0 0 0 0 0
##
  [556] 1 1 1 1 1 1 0 1 1 1 0 1 0 0 1 1 1 1 0 1 1 1 0 0 1 1 1 1 0 0 0 0 1 0 1
## [593] 1 1 1 1 0 1 1 0 0 0 0 0 1 0 1 0 0 1 1 1 0 1 0 1 1 1 0 0 1 1 1 1 1 0 0 1 1
   ## [667] 0 1 1 0 0 1 0 1 1 0 1 1 1 0 0 0 1 1 1 1 1 1 1 0 1 0 1 0 1 0 0 1 0 0 0 0
## [704] 0 1 1 0 0 0 0 1 0 1 0 1 1 0 1 1 0 0 1 0 1 0 1 0 1 0 1 1 1 0 0 1 0 0 0 1
[778] 1 1 0 0 1 1 1 1 1 1 1 1 1 0 0 0 1 0 0 0 1 0 0 1 1 0 1 0 1 1 0 1 1 1 1 1 1 1 0 0
##
## [815] 1 1 1 0 1 1 1 0 1 1 1 1 0 0 1 1 1 0 0 0 1 0 1 0 0 0 1 0 1 0 1 1 1 0 1 1 1 0 0 0
## [852] 0 1 1 1 0 1 0 0 1 0 0 1 1 1 0 1 1 0 1 1 1 0 0 0 0 1 1 1 1 1 1 0 1 0 1 0 1
## [926] 0 1 1 1 1 0 1 0 0 1 0 0 1 0 1 0 1 1 1 1 1 1 1 1 0 1 1 0 1 1 1 1 0 0 1 1 0
## [1000] 0
data <- data.frame(dfa$Edad,</pre>
              dfa$dap,
              dfa$hibrido,
              dfa$rto,
              dfa$clolA,
              dfa$abortos)
data
##
     dfa.Edad dfa.dap dfa.hibrido dfa.rto dfa.clolA dfa.abortos
     68.36548 33.51144
## 1
                          0 41.10594 334.5466
                                                 1
## 2
     61.11996 24.64589
                          0 16.23856 293.4211
                                                 0
## 3
     65.67449 30.21260
                          1 26.43371 325.5389
                                                 1
## 4
     65.79152 25.08038
                          0 26.36622 324.0659
                                                 1
     66.08771 32.91521
                          1 28.16353 325.3727
## 5
                                                 1
```

##	6	64.01507	28.93312	1	25.82076	310.9683	0
##	7	66.15036	32.33331	1	33.03924	328.8934	1
##	8	67.96487	33.67805	1	34.62168	332.8217	1
##	9		28.07795	0	31.69640	316.0827	0
##	10	63.91128	29.45197	1	26.52214	321.2637	1
##	11	65.66731	33.48864	0	27.50466	318.4108	1
##	12	70.03862	34.69724	0	36.28924	329.6989	1
##	13	67.27532	26.94840	0	28.07734	314.5779	0
##	14	70.07301	31.46010	0	32.25526	322.7617	1
##	15	64.86919	29.41059	1	29.63468	314.2238	0
##	16		29.52844	1	30.39667	314.6206	0
##	17		26.22646	1	30.27424	312.9895	0
##	18	65.94886	24.84199	1	25.49105	300.7208	0
##	19		29.03715	0	28.79549	317.4519	0
##	20	67.18335	31.49858	1	30.65970	318.2046	0
##	21	64.38812	26.40191	0	26.72245	318.8255	1
##	22	66.60749	30.64094	1	23.11431	313.4486	1
##	23	67.84038	30.38544	1	24.86318	316.0024	1
##	24	62.39732	32.70281	0	25.10283	316.9748	1
##	25		28.75947	0	27.62115	315.5636	0
##	26		30.13401	0	30.41562	318.3954	0
##	27		25.80338	1	25.85472	306.0680	0
##	28		28.96199	1	26.97327	310.0017	0
##	29		31.62191	1	28.92396	316.3265	0
##	30		26.38097	1	20.60043	304.9082	0
##	31		33.75229	1	35.60521	330.1365	1
##	32		33.13187	0	32.54230	329.1321	1
##	33		30.60312	1	23.29537	316.4234	1
##	34		34.47451	1	29.13055	330.9468	1
##	35		34.65283	1	34.62300	335.3528	1
##	36		34.28037	1	37.12737	332.3892	1
##	37		30.32130	0	24.69758	310.3818	0
##	38		27.57008	1	28.31983	315.3792	0
##	39		24.56174	0	21.03360	315.4735	1
##	40		26.84052	1	26.97080	310.8485	0
##	41		29.15919	1	29.03958	314.6922	0
	42		32.37721	0	31.53197	323.3415	1
	43		31.12588		31.67720	321.8795	1
	44		30.42743		32.81181	333.6348	1
	45		32.07967		35.11659	334.1594	1
	46		27.69035		30.29124	312.6893	0
	47		32.56997		44.94832	336.7004	0
	48		25.27892		27.49836	312.4500	0
	49		32.62083		29.95274	327.9181	1
	50		34.81818		34.68589	336.2106	1
	51		29.15025		26.11029	323.1640	1
	52		31.63384		24.05225	322.8238	1
	53		31.96539		32.75881	333.1539	1
	54		27.81648		32.18647	321.4790	0
	55		25.11320		23.27403	295.1088	0
	56		33.34780		32.13658	329.6132	1
	57		31.17420		32.90444	333.3804	1
	58		28.68062		24.42372	316.9671	1
##	59	os.39351	25.76389	1	22.84922	306.1449	0

##	60	69.97805	33.31196	0	37.31183	344.4046	1	
##	61	67.69180	34.73333	1	37.14739	339.0269	1	
##	62	68.55028	27.91011	1	34.02148	322.5382	0	
##	63	67.66574	32.40194	1	32.20115	323.0587	1	
##	64	68.99889	33.79531	1	36.49580	327.8887	1	
##	65	71.00521	34.76241	1	39.41581	332.7029	1	
##	66	66.87079	28.07476	0	26.53067	321.3757	1	
##	67	63.00508	29.28519	1	29.33725	316.6443	0	
##	68	67.62657	34.65521	0	32.09754	319.0370	0	
##	69	66.79378	31.15961	1	31.02371	322.7630	1	
##	70	67.34673	26.46577	1	24.43160	316.2660	1	
##	71	68.30837	30.54960	1	33.01095	333.0402	1	
##	72	68.13933	33.44547	0	34.56297	327.9018	1	
##	73	69.49719	33.22436	1	37.43519	329.3807	1	
##	74	66.96342	31.72040	1	41.02852	334.9423	1	
##	75	69.64109	35.08635	0	41.61561	338.2345	1	
##	76	66.43050	27.12760	1	34.05063	322.7732	0	
##	77	62.71758	26.87616	0	19.92114	304.5786	0	
##	78	65.21921	34.19524	1	34.27333	324.1718	0	
##	79	66.24733	33.31085	0	32.04890	319.2331	0	
##	80	68.99511	32.52239	1	29.70903	315.5507	0	
##	81	67.34618	28.14624	1	30.29656	317.5279	0	
##	82	67.59635	28.64140	1	28.59291	316.8445	0	
##	83	68.36188	34.17445	0	32.09437	320.1023	0	
##	84	67.48609	30.62186	1	31.43685	313.1722	0	
##	85	66.40502	29.26060	1	26.63010	315.1769	0	
##	86	67.56039	32.48380	1	37.56456	326.5195	0	
##	87	69.04762	30.61893	1	29.77607	319.8674	1	
##	88	68.89654	29.21452	1	35.61241	326.6293	1	
##	89	68.09344	33.34638	0	36.10497	332.5354	1	
##	90	67.18447	38.32347	1	38.60117	340.4202	1	
##	91	71.02135	36.17074	0	37.65728	331.4772	1	
##	92	61.92294	25.41836	1	23.39214	296.9173	0	
##	93	69.13765	33.83357	1	34.24937	330.4579	1	
##	94	64.88389	27.54242	1	22.45353	310.4902	1	
##	95	67.62679	28.54804	1	29.85622	313.1355	0	
##	96	68.50453	29.40184	1	33.81120	324.7976	1	
##	97	65.84350	30.07631	1	31.21346	318.8754	0	
##	98	65.90546	31.97642	0	31.33457	325.0584	1	
##	99	67.61167	35.11543	1	34.76526	336.2629	1	
##	100	67.22506	29.41671	1	28.26020	311.9218	0	
##	101	68.35801	28.95551	1	29.03919	327.7727	1	
##	102	67.87857	30.46274	1	36.26321	329.1958	1	
##	103	64.65691	25.45525	0	26.68314	314.2086	0	
##	104	68.88307	29.77038	1	33.77536	321.9731	0	
##	105	63.02428	21.87355	0	17.62251	298.0510	0	
##	106	64.94027	31.01336	0	29.06449	313.3455	0	
##	107	65.35847	32.21684	0	24.94861	316.2067	1	
##	108	67.29940	28.41220	1	33.26271	332.2101	1	
##	109	67.25796	26.17350	0	27.03506	309.7955	0	
##	110	67.26767	31.93472	0	30.28384	321.8417	1	
##	111	71.54903		1	35.71124	325.7063	0	
##	112	64.36482			25.09370	311.8825	0	
##	113	67.59417	29.79610	1	31.59288	329.8749	1	

##	114	66 83507	25.18317	1	23.07982	300.3035	0
	115		27.09042		23.31630	303.5547	0
	116		36.52143		38.28870	335.7253	1
	117		28.59255		21.02269	312.0240	1
	118		22.66715		25.00580	301.9789	0
	119		36.77596	1		328.6139	1
	120		25.21055	0		310.2810	0
	121		26.12804	0	29.21575	311.4635	0
	122		25.67074	0		317.2479	1
	123		29.88657	1		322.6988	0
##	124		31.73664	1	31.85679	324.5735	1
##	125	68.74345	29.02839	0	35.36942	319.0260	0
##	126	68.74063	31.99163	0	26.52801	319.8182	1
##	127	68.00358	35.18832	1	34.65191	328.1760	1
##	128	67.50440	25.58922	1	31.84087	319.6643	0
##	129	66.99208	26.64447	1	28.88043	317.7577	0
##	130	64.48903	29.95788	1	22.19509	302.5587	0
##	131	68.00456	30.37686	0	33.68809	319.6248	0
##	132	68.72802	31.21130	1	25.59376	319.1660	1
##	133	67.41727	26.05048	1	29.39110	305.2719	0
##	134	68.18040	28.09246	0	32.94795	324.9957	1
##	135	67.17736	26.22072	1	32.52944	314.4065	0
##	136	68.05039	30.67538	0	33.47430	321.9094	0
##	137	66.68063	34.91363	1	34.75022	331.2253	1
##	138	68.07626	31.06411	1	31.66979	328.0659	1
##	139	70.73729	32.69236	0	28.93725	322.6087	1
##	140		29.36569	1		322.2321	0
##	141	68.36034	29.14222	0	25.60538	307.8003	0
##	142		34.78234	1		327.8028	1
##	143		32.16884	1		329.3967	1
##	144		34.19996	1		327.0123	1
##	145		32.46410	1		325.9961	1
##	146		30.73796	1		318.2861	1
##	147		28.84141	0	30.84258	327.7647	1
##	148		32.99555	1		320.4388	0
##	149		25.98901	1		315.1808	0
##	150		29.23927		27.72032	315.5542	0
##	151		34.82862		34.39749	324.1395	0
##	152		31.57531		37.10466	329.7390	1
##	153		32.66732		26.73333	306.1664	0
##	154		29.47672		34.31711	317.6892	0
##	155		31.05488		31.78217	323.8634	1
##	156		34.02762		29.32762	317.3460	0
##	157		30.43558		32.13410	328.8862	1
##	158		26.46300		22.82826	311.1970	1
##	159		36.38550		37.20093	340.2179	1
##	160		33.96922		31.47500	321.9649	1
##	161		26.67441		28.91157	306.9930	0
##	162		27.77520		30.47725	311.3778	0
##	163		28.69303		26.77795	310.6803	0
##	164		36.45139		39.58898	340.5704	1
	165		27.01758		27.91627	307.4815	0
##	166		27.89052		20.54855	299.8551	0
##	167	67.05902	29.40970	0	23.81129	312.8525	1

##	168	67.61545	29.38104	1	33.06249	323.6130	1
##	169	64.47553	31.09664		23.97382		1
##	170	69.48561	30.40629	1	32.50579	328.1062	1
##	171	64.43562	31.20392	0	28.89464	317.2470	0
##	172	64.74844	26.86375	1	30.50195	309.9765	0
##	173	65.94498	28.86250	1	23.45146	301.1315	0
	174	68.55100	27.71363	0	34.64764	320.9646	0
##	175	67.22620	34.54121	0	35.86456	325.7601	0
##	176	66.83867	32.36564	1	23.82636	316.6957	1
##	177	66.32358	31.39260	0	27.57159	314.0187	0
##	178	65.43313	26.98851	1	28.06715	308.3451	0
##	179	63.87682	26.67117	1	25.18609	316.1010	1
##	180	66.03073	26.41658	0	22.32474	298.8537	0
##	181	71.46559	30.54122	1	34.81634	324.2372	0
##	182	62.62129	27.25990	1	22.72542	312.1382	1
##	183	64.18239	24.42583	1	22.90004	299.7995	0
##	184	67.60020	28.02817	1	28.64158	309.7180	0
##	185	68.07083	34.94295	0	39.91815	334.0927	1
##	186	66.55853	35.26634	1	30.68227	333.0135	1
##	187	69.34608	36.65091	0	37.15459	339.2652	1
##	188	69.98072	36.28009	1	35.53134	335.7107	1
##	189	71.88453	37.62531	1	40.20413	336.2165	1
##	190	65.38466	33.36869	0	33.47401	333.7410	1
##	191	67.23321	32.54075	1	37.44373	335.9665	1
##	192	64.26400	29.81506	0	18.52928	312.0150	1
##	193	64.61964	25.30831	1	25.57505	307.7248	0
##	194	66.71559	30.30148	1	24.68360	310.2342	0
##	195	67.53623	30.22573	0	34.24758	318.7181	0
##	196	69.13041	30.35090	1	34.86830	325.5017	1
##	197	68.25914	27.77500	1	30.75478	312.0692	0
##	198	66.55193	33.65795	1	33.05388	331.6589	1
##	199	70.12154	29.82038	0	26.57676	318.3336	1
##	200	68.83530	24.73508	0	21.91909	306.9430	0
##	201	65.85186	25.36981	0	21.19540	300.8102	0
##	202	69.01098	29.63113	1	31.28584	319.6867	0
##	203	67.23549	29.07867	0	30.56066	320.2709	1
##	204	71.52736	30.41428	1	35.42600	329.3022	1
##	205	63.63112	24.73521	0	28.73387	307.0048	0
##	206	64.65431	29.70710	1	28.71354	315.5592	0
##	207	62.96178	31.21680	0	21.97486	309.1624	0
##	208	63.44866	31.15292	0	25.93297	315.1796	1
##	209	64.88829	22.91025	1	22.43602	292.2165	0
##	210	64.94003	25.27930	0	24.52872	313.9633	1
##	211	68.05366	31.95416	1	30.24688	323.6764	1
##	212	69.26365	31.87331	0	34.39714	330.7359	1
##	213	67.59017	27.54161	1	29.94423	317.7373	0
##	214	64.54073	28.91080	0	24.17149	313.6187	1
##	215	67.54614	26.69847	0	34.03874	324.0487	0
##	216	63.34511	33.38033	1	30.88300	327.1966	1
##	217	64.12729	28.69653	1	25.65947	314.3516	1
##	218	69.42926	29.92055	1	33.56784	317.6518	0
##	219	64.69069	27.96687	1	25.69924	307.6942	0
##	220	68.49025	32.59066	1	29.98157	328.4499	1
##	221	66.54923	32.81556	0	30.94675	321.4921	1

##	222	67.62289	24.93919	0	31.32578	321.5041	1
##	223	71.21523	33.24862	1	38.72599	331.2116	1
##	224	66.36562	29.28229	0	29.69178	316.5900	0
##	225	69.40013	36.15899	0	36.37611	323.8235	0
##	226	69.67000	34.14789	0	37.83408	331.6166	1
##	227	70.64103	28.73157	0	32.70309	317.9711	0
##	228	67.88929	29.70066	0	32.65977	321.4556	0
##	229	68.05735	36.45780	0	37.51807	344.7733	1
##	230	68.04351	31.51560	0	38.60847	322.6745	0
##	231	67.52212	31.01185	1	32.07682	321.8569	1
##	232	65.70045	30.23470	1	30.69729	325.0014	1
##	233	66.49448	28.11233	0	21.79530	299.9496	0
##	234	63.97868	25.12530	0	20.23492	305.0983	0
##	235	65.44683	32.74219	0	31.82066	322.7397	1
##	236	66.42839	31.00983	1	28.61031	315.1422	0
##	237	66.22945	27.87707	1	30.17014	317.6991	0
##	238	66.70698	24.52830	0	30.94018	319.7682	0
##	239	67.39133	31.48412	1	34.41726	327.2873	1
##	240	65.86504	30.52955	0	32.17250	324.2803	1
##	241	62.72619	23.28556	1	22.68939	297.8351	0
##	242	66.35917	28.82061	1	30.55799	323.8267	1
##	243	65.84156	31.08824	0	25.11778	310.7412	0
##	244	66.75583	31.50524	0	30.79994	322.7524	1
##	245	68.14361	33.66946	1	33.46837	333.8465	1
##	246		25.35554			299.1627	0
##	247		32.74577			340.2998	1
##	248		26.46572			326.1302	1
##	249	68.45359	31.75987	0	31.76158	324.5892	1
##	250	63.14363	35.43809	0	29.42510	332.3420	1
##	251	68.81582	29.29518	1	32.84828	318.0282	0
##	252	68.17988	32.26331	0	24.19704	311.6750	0
##	253	61.63403	25.63540	0	22.43337	306.3216	0
##	254	65.96865	31.02761	0	32.26252	318.8740	0
##	255	69.12321	29.37873	0	30.85438	316.3922	0
##	256		27.22341	1	34.63795	325.8905	1
##	257		31.20760		29.97783		1
##	258	66.06649	30.67890	1	23.77082	320.6838	1
			29.84110		32.12456	320.5253	0
				1	28.72595	312.4323	0
##	261	69.68483	32.52814	1	37.13257	333.9300	1
##	262	66.61422	27.44566	0	24.11774	306.2228	0
##	263	68.75762	30.88994	1	30.87639	326.8616	1
			28.98502			328.7901	1
			25.01539			302.4259	0
##	266	69.77855	30.48930	0	40.05379	334.6631	1
				0	36.93576	320.9021	0
				0			0
				1			
				1			
				1			
				1			
				0			
				1			
				1			1

##	276	65.79105	30.41959	0	30.35190	317.6663	0
##	277	66.28692	25.85808	0	29.33299	320.2876	1
	278		27.94616	1	29.53014	324.2895	1
	279		26.30886	1	27.39283	304.2677	0
##	280	64.46241	28.20056	0	26.42682	316.1401	1
##	281	67.19060	29.45208	1	21.68306	310.2302	1
##	282	64.80716	28.37866	1	26.15879	320.6703	1
##	283	67.35204	34.59547	1	32.81348	331.9118	1
	284	70.49763	35.32858		36.24560	331.7058	1
	285	67.76810	31.28160		30.99498	317.7288	0
	286		29.11274		27.13357	308.2463	0
	287		25.85710		24.10575	305.8391	0
			27.08050	0	20.55858	312.4289	1
	289		25.77526	1	25.79046	311.9456	0
			31.35809	0	32.82265	317.5502	0
	291		30.90773		33.84663	324.4514	1
			35.57148	0	30.43621	317.9217	0
	293	66.31664	25.72416		28.49592	320.4184	1
##	294		34.18382	1	36.18574	331.0862	1
	295		35.56031		42.72794	344.6804	1
	296		31.25897	1	33.26750	323.1388	0
##	297		30.90699	1	30.56423	326.0913	1
	298		30.42883	1	32.19642	326.1261	1
	299		29.32537	1	31.50661	323.5576	1
	300		29.48562		27.02783	317.5932	1
##	301	64.82249	30.87735		29.31549	317.6834	0
##	302		30.24546	1	33.84915	313.4958	0
##	303		33.41405	0	34.70426	329.3814	1
##	304	66.23600	35.63035	1	31.07526	329.7231	1
##	305		24.85989	1	26.50301	311.9507	0
	306		32.08611		31.54803	324.3671	1
	307		30.17606		31.02196	326.8934	1
	308		27.78987		25.09959	312.4016	0
	309		30.05710		29.62673	308.9837	0
	310		29.22436		27.34538	321.6447	1
##			27.92499		32.01694	324.8964	1
##			30.27065		31.40463	327.9103	1
	313		34.97658		39.10705	340.4107	1
	314		31.77349		30.41088	328.8169	1
	315		30.86857			335.4565	1
	316		30.90340		29.62046	314.9658	0
	317		31.67858		31.74934	321.2472	0
	318		25.48365		25.37844	311.5253	0
	319		29.37154		29.88045	318.6414	0
	320		30.84442		26.54295	316.7275	1
	321		29.09361		29.64825	323.5419	1
	322		26.12899		28.23295	316.8752	0
	323		26.22425		28.40123	319.2552	1
	324		31.78275		33.80479	332.5293	1
	325		32.57899		28.22374	318.1977	1
	326		31.36152		23.72878	314.0797	1
	327		28.35150		25.41319	304.0061	0
	328		28.37039			312.9351	1
##	329	08.08252	31.61020	1	28.45444	318.4/33	1

##	330	67.70080	31.63256	0	34.	65298	328.	7585	1
##	331	69.24209	28.15146	1	29.	23817	309.	4954	0
##	332	65.76672	25.22044	0	32.	12451	320.	8296	0
##	333	66.31234	31.88211	1	29.	77457	322.	9533	1
##	334	64.54975	28.35746	1	28.	08866	311.	8703	0
##	335	69.26051	29.90076	0	37.	99398	327.	5269	0
##	336	65.67355	35.47448	1	30.	38878	333.	7035	1
##	337	63.40764	29.31434	1	29.	60833	329.	1376	1
##	338	64.38382	32.99314	1	25.	60710	310.	5428	0
##	339	67.39824	32.66067	1	35.	26051	334.	1446	1
##	340	64.97424	30.97664	0	29.	62868	327.	1342	1
##	341	70.18159	33.45799	1	37.	51377	346.	5699	1
##	342	69.37013	27.74225	1	30.	08750	317.	8427	0
##	343	70.79372	32.84938	1	33.	62618	322.	4410	0
##	344	66.14779	24.93868	1	24.	90687	303.	6376	0
##	345	66.53875	27.70121	1	25.	15388	314.	1305	1
##	346	64.01494	26.58328	1	31.	03187	312.	4745	0
##	347	70.04530	32.71356	1	34.	89099	324.	8158	0
##	348	65.04594	28.65836	1	32.	25805	326.	3384	1
##	349	65.19211	24.78493	1	25.	01001	312.	2302	0
##	350	65.81400	32.03156	1	32.	73406	328.	0786	1
##	351	68.32325	33.50709	0	27.	10956	332.	2674	1
##	352	64.99512	30.73056	1	19.	37351	312.	8614	1
##	353	65.23493	24.84499	0	31.	09157	309.	8901	0
##	354	66.35016	30.51476	1	27.	08815	315.	0843	0
##	355	68.08652	30.05504	1	26.	85359	314.	8181	0
##	356	63.28062	23.67726	1	19.	58342	298.	1163	0
##	357	66.44333	31.45444	1	27.	54991	324.	9632	1
##	358	66.61659	33.17199	0	33.	97112	346.	3242	1
##	359	66.55158	30.51419	0	27.	00823	314.	0038	0
##	360	63.81433	29.22320	0	26.	16221	321.	1938	1
##	361	66.81006	30.57757	1	28.	65814	322.	9137	1
##	362	68.48875	32.82559	1	29.	94434	325.	9798	1
##	363	68.36662	31.56788	1	34.	26932	319.	6988	0
##	364	65.92010	24.12180	0	23.	04380	299.	8046	0
##	365	66.77320	28.82820	0	28.	11088	317.	3613	1
##	366	66.85605	27.56457	1	28.	09885	309.	8330	0
##	367	69.20383	31.59039	1	33.	91206	320.	0138	0
##	368	67.19723	30.03512	1	30.	85430	316.	7796	0
##	369	68.48842	25.70686	1	27.	33539	316.	8515	1
##	370	66.13725	32.80541	0	30.	75052	323.	6108	1
##	371	69.30915	26.16524	1	26.	95815	316.	3597	1
##	372	68.28114	31.33780	1	31.	45025	324.	7198	1
##	373	69.15349	34.69103	1	34.	49669	328.	1882	1
##	374	70.25801	35.86594	1	42.	32365	345.	9012	1
##	375	69.85391	29.70987	0	28.	93236	313.	6793	0
##	376	65.42394	32.72464	0	27.	53962	317.	6339	1
##	377	68.16922	29.19311	1	30.	68180	326.	6775	1
##	378	67.71547	28.56383	1	33.	97656	325.	3624	1
##	379	66.14641	27.94634	0	30.	60831	317.	6422	0
##	380	68.61138	29.74727	1	27.	74655	326.	4587	1
	381	70.56046		1	35.	95638	331.	6867	1
##	382	70.96952	31.00066			99361	330.	9660	1
##	383	63.26859	30.83489	0	28.	63482	312.	4722	0

шш	204	CE OFF40	07 66405	1 00 00041	211 2002	^
	384		27.66185	1 23.86841	311.3223	0
	385		25.43330	1 15.17842	298.3999	0
	386		32.77240	1 30.25465	321.8412	1
##	387	71.40178	33.89954	1 34.13116	321.9495	0
##	388	64.60653	31.22957	0 31.70890	323.6751	1
##	389	65.40458	32.14631	0 34.22012	342.0575	1
##	390	68.24893	28.55098	1 24.40988	313.4342	1
##	391	67.28936	30.21708	0 31.70487	323.5861	1
##	392	68.16922	28.56368	1 31.96988	326.7386	1
##	393	67.91107	30.89865	1 34.17127	328.5416	1
	394		26.47456	1 22.38859	308.1182	0
	395		34.58778	1 35.95167	334.3711	1
	396		30.52539	1 31.06924	314.5286	0
	397		32.19762	0 29.41186	323.9983	1
	398		30.38711	0 27.25499	324.7370	1
	399		31.84946	0 33.79830	331.7579	1
	400		35.32841	0 38.95640	338.5223	1
	401		29.88633	1 41.66194	324.8077	0
	402		28.19222	0 27.78307	310.8305	0
##	403	65.82461	27.05865	1 26.94571	311.5314	0
##	404	66.77486	31.28869	1 37.50339	328.6219	1
##	405	66.14649	29.41748	1 29.62544	317.5462	0
##	406	68.23447	34.59718	1 25.52411	321.4222	1
##	407	67.96909	29.85131	1 31.08612	310.0223	0
##	408	65.96580	30.81064	0 26.39106	318.0622	1
##	409	66.68085	27.96488	1 28.09642	317.9691	1
##	410	65.51753	26.76905	0 28.30419	313.7351	0
##	411	63.65059	26.45402	0 19.28180	303.0545	0
	412		28.52095	0 31.50081	312.8574	0
	413		29.90232	1 26.36925	318.0241	1
	414		29.76343	1 30.29571	317.9704	0
	415		27.09276	0 23.84099	308.2385	0
	416		29.90336			1
					322.2668	
	417		33.26454	1 37.05927	337.4935	1
	418		31.13354	0 30.40252	323.5776	1
	419		28.05977	0 30.03318	332.6120	1
##	420	65.30341	29.99410	1 25.07690	303.7296	0
	421		29.80708	1 26.19394	320.6334	1
##	422		26.44187	0 22.75459	297.8873	0
##	423	66.20982	25.76713	1 26.70802	299.6780	0
##	424	65.22795	30.75899	1 27.47562	318.5634	1
##	425	65.71940	28.62214	1 26.53994	309.4870	0
##	426	64.04228	30.26245	1 23.61469	302.6687	0
##	427	66.25681	28.33778	1 24.10008	313.6577	1
##	428	67.31768	29.54636	0 29.58976	315.0136	0
##	429	64.45918	31.91421	0 29.62026	330.4273	1
	430		24.96949	1 22.24492	289.6815	0
	431		27.05684	0 20.02505	294.4983	0
	432		31.30156	1 27.50430	316.9843	1
	433		29.25054	1 26.50761	322.1601	1
	434		32.28163	1 30.01805	316.4448	0
	435		28.04938	1 22.89082	317.4156	1
	436		30.18518	0 31.50564	314.7697	0
##	437	08.08275	34.39173	1 34.17585	324.5228	1

##	438	67 23/60	28.05803	0	31.85246	319.8375	0
	439		33.49093		30.91510	331.8518	1
	440		23.82893		17.95714	300.0334	0
	441		26.57945		28.38368	319.6813	1
	442		28.76527		24.93081	311.3388	0
	443		29.65968	0	35.72692	319.6032	0
	444		29.84318	0	29.80828	323.7458	1
	445		28.06629	1		310.7203	0
	446		24.57265	0	27.98502	309.9452	0
	447		23.86002	0	29.41822	308.9576	0
	448		26.75465	1		303.2523	0
	449		28.78115	0	26.86956	324.1583	1
	450		28.68860	1		320.9213	1
##	451	64.20990	31.40144	1	26.43139	323.9196	1
##	452	69.69752	29.24705	0	33.61068	325.5590	1
##	453	64.37822	29.84392	1	29.29904	320.2372	1
##	454	65.06653	28.64672	1	27.46389	313.9166	0
##	455	65.93797	30.14543	1	33.29948	321.0826	0
##	456	66.06212	29.70801	1	26.44480	321.0703	1
##	457	64.94609	30.12882	1	29.91593	318.5144	0
##	458	68.21000	34.38638	0	36.99849	330.7356	1
##	459	65.16915	30.72470	1	29.07496	313.4598	0
##	460	64.43425	29.20236	0	26.23002	311.9608	0
##	461	69.83897	33.04308	1	33.72720	323.9276	1
##	462	66.56865	34.27901	1	31.73417	331.3909	1
##	463	68.11496	32.23809	1	29.50167	321.7676	1
##	464	65.83612	30.15283	1	26.81681	312.0927	0
##	465	66.44623	27.39499	0	29.87409	316.7064	0
##	466	67.08285	29.10633	1	32.09768	321.7273	0
##	467	67.25918	29.07587	1	34.09775	319.7908	0
##	468	69.29528	31.86904	0	34.60644	323.2933	0
##	469	67.79228	30.36782	1	34.87799	328.1910	1
##	470	66.75870	28.22296	1	28.35797	312.5263	0
##	471	69.68387	32.02233	1	31.60078	328.3649	1
##	472	67.09339	32.57273	1	32.37665	327.7100	1
##	473	67.95235	30.99446	0	36.03739	332.6632	1
##	474		31.65167		38.57124	327.4954	0
##	475		32.66696	0	32.72290	323.7421	1
	476		26.33297		34.69565	325.3166	1
	477		32.36820		29.97467	328.5368	1
	478		31.50675	1	31.50512	326.6739	1
	479		25.51903		27.08907	313.5165	0
	480		25.94209		23.66612	310.2856	0
	481		32.75193		35.42977	329.2005	1
	482		26.81794		30.84564	322.2325	1
	483		29.70182		30.54419	325.6840	1
	484		28.58603		28.79895	309.5107	0
	485		32.67851		31.08018	332.4246	1
	486		31.72795		32.07580	321.9927	1
	487		31.00624		33.62422	322.6306	0
	488		28.04902		21.33929	300.8828	0
	489		32.60090		26.97129	321.7070	1
	490		27.19285		26.93055	302.1478	0
	490		31.95136		30.27584	318.8038	0
##	431	10.09390	21.53130	U	50.2/504	310.0038	U

	400		04 05500		04 05405		
	492		24.85723		21.85487	300.6678	0
##	493	68.20135	33.50318	0	25.98813	316.7258	1
##	494	61.85233	30.75893	1	22.30407	306.3200	0
##	495	68.42291	31.94472	0	33.40600	330.5266	1
##	496	66.61697	30.13848	1	29.14059	333.9360	1
##	497	67.05489	31.59553	1	32.09004	320.1783	0
	498		25.43915		22.48135	302.8899	0
	499	65.23813		1		307.6291	1
						296.1636	
	500	62.00353		0	17.16074		0
	501		29.74922	1		323.1232	0
##	502		29.99362	1		320.3533	1
##	503	65.27241	31.61597	0	29.15396	321.8593	1
##	504	66.52984	30.03832	0	29.04029	328.6609	1
##	505	62.66452	29.62161	1	26.37518	315.1059	1
##	506	70.93558	31.35029	1	33.35973	326.0034	1
##	507	68.29255	29.95965	1	27.04495	314.5194	0
##	508	68.63447	32.32362	1	32.33630	305.7477	0
##	509	66.95124	34.32173	1	38.60173	339.6861	1
##	510	65.86071	29.51792	0	27.59848	314.9309	0
	511		29.38064	0	26.96221	319.2978	1
	512		35.59814	1	34.91167	337.7305	1
	513		32.69259	_	34.15861	333.1916	1
	514		35.48396	1		328.7048	1
	514						
			27.77962	1	26.45222	312.9075	0
	516		27.91620	0	28.09277	314.2564	0
	517	65.52408		1		311.9819	0
	518		31.45994	1	31.19969	322.0828	1
##	519	66.33049	27.69987	1	31.98554	333.4450	1
##	520	68.35511	27.77757	1	27.05029	310.6921	0
##	521	69.14289	33.73156	0	34.93088	320.9807	0
##	522	68.91921	31.05398	1	33.57241	332.8561	1
##	523	70.95169	33.70816	1	40.16331	336.1629	1
##	524	65.68528	31.55789	1	30.42517	327.0362	1
##	525	65.46054	26.76196	1	24.29845	302.6755	0
	526		33.07277	0	26.30804	315.8263	1
	527	66.40706		1	26.35350	309.8040	0
	528		31.79824		34.96670	327.4104	1
	529				26.70909	308.2630	0
		67.65920			36.64056	333.6232	
	530		32.29104				1
	531		29.31426		25.21807	318.8832	1
	532		28.15698		25.14710	311.4955	0
	533	66.30939			27.03711	309.6695	0
	534		30.73587		26.43702	306.7769	0
##	535	64.88833	33.85554		27.79918	319.6373	1
##	536	64.27763	28.61037	1	27.39383	311.5422	0
##	537	65.37470	31.74642	1	27.03133	319.9534	1
##	538	70.61623	32.65199	0	40.86384	330.8177	0
##	539	66.69282	30.52675	0	30.99417	323.8200	1
	540	69.45393		1	33.72529	321.4805	0
	541	65.84584			22.41352	311.4252	1
	542		27.09844		30.14405	311.2117	0
	543		28.25138		22.41077	310.8083	1
	544	67.05115			37.92166	338.8871	1
	545		25.23309		25.89829	309.6482	0
##	040	04.34330	20.20009	U	20.03023	503.0402	U

	E 4 C	60 75070	00 40404	4	05 70005	000 0444	
	546	69.75979			35.78035	326.9441	1
##	547	69.70765		1	31.18151	328.8242	1
##	548	68.89569	28.49460	0	35.87640	326.3638	0
##	549	65.26109	27.14055	1	25.11128	311.1246	0
##	550	65.12777	30.03681	1	24.72368	310.7571	0
##	551	63.68989	29.80512	1	23.83843	311.1804	0
##	552	65.14660	22.92758	1	21.16170	299.3663	0
##	553		28.35878	0	31.13322	311.5384	0
	554		27.33168		34.67927	319.9476	0
	555		29.99889	1		309.3449	0
	556		28.96935	1		315.3740	1
	557	68.84034					1
				1		333.5210	
	558		35.35998	0	39.31577	342.6038	1
	559		33.19209	1		330.4049	1
	560		31.09558	1		316.9468	1
	561		30.69962	1		327.7219	1
##	562	65.18847	31.43915	0	27.55588	315.6622	0
##	563	65.75188	28.01520	1	32.55608	325.8223	1
##	564	68.24110	30.56240	0	27.94177	321.0608	1
##	565	66.74337	31.11861	1	32.50490	322.3199	1
##	566	71.43479	32.13102	0	34.21139	319.7567	0
##	567	66.89237	26.78632	1	27.78175	327.8946	1
##	568	68.43079	33.16132	1	26.01764	310.0160	0
##	569		30.56674	1	20.41737	304.7843	0
	570	65.88261		0		318.9297	1
	571		32.31729	1		334.7971	1
	572		28.96698	1		313.7243	1
	573		34.25974	0	38.49389	335.1010	1
	574		35.43775	1	40.03301	326.5933	
							0
	575		31.20519	0	29.12677	332.4101	1
	576		33.96112	1	39.50534	335.6414	1
	577		33.10617	0	28.42001	327.5960	1
	578		29.00596	1		309.3595	0
##	579	69.46726	28.56867	0	36.46786	323.2974	0
##	580	63.06517	30.90675	1		320.3531	1
##	581	69.76682	35.49325	0	41.01946	335.7408	1
##	582	68.45740	30.99406	0	35.27966	330.0619	1
##	583	67.75463	33.71150	1	38.01062	341.2582	1
##	584	69.01523	28.84075	1	37.99468	326.5225	0
##	585	66.44365	27.60254	1	33.42540	332.1040	1
##	586	68.71063	31.93046	1	32.11923	320.8123	0
	587		33.06833		36.42610	322.3492	0
	588	65.05938			25.30033	311.2204	0
	589	62.77113		1	18.42922	301.4072	0
	590		32.81263		29.59235	325.2855	1
	591		25.85438		23.91598	302.8466	0
		65.84687					
	592				35.35375	327.5704	1
	593	68.85410			36.88005	330.6976	1
	594	65.45497			27.50261	318.8291	1
	595	69.11912			38.16980	340.0591	1
	596		27.18336		28.95178	324.0056	1
	597	66.85061			28.05230	311.6777	0
	598	68.49181			26.60388	322.3126	1
##	599	65.51635	29.24061	1	29.29997	330.8867	1

шш	600	60 03150	22 04000	0 35 51000 303	EE03
	600		33.84988		.5593 0
	601	64.69143			. 1816 0
	602		26.76418		.8537 0
##	603		25.15678	1 29.24083 314	.6224 0
##	604	66.75629	24.05527	0 25.97476 301	.5757 0
##	605	65.71933	30.34625	0 29.33802 324	. 1365 1
##	606	64.62776	21.80743	0 17.27580 303	. 3441 0
##	607	66.84506	29.16531	1 25.99533 321	.8241 1
##	608	66.65564	29.31843	1 22.58157 309	.5214 0
##	609	68.39816	25.96324		.1608 0
##	610		31.06562		.4293 1
##	611		31.51238		.1075 1
	612		34.31588		.2193 1
	613		31.76573		.6228 0
	614		32.66852		.4459 1
	615		30.00555		.9729 0
	616		30.28165		. 1720 1
##	617	67.43760	27.75774	0 33.61462 324	.9222 1
##	618	68.07446	34.34476	0 37.09402 328	.9946 1
##	619	68.39513	30.36199	1 29.77469 315	.7372 0
##	620	64.17178	28.52007	1 28.99011 308	.7771 0
##	621	67.77231	33.28059	1 34.00334 332	.0531 1
	622	70.70858	31.51018	1 30.13931 328	. 2091 1
	623	69.24417	33.70719		.0430 1
	624		27.87602		. 2514 1
	625		25.97708		. 2636 1
	626		29.13941		.1571 0
	627		27.54914		
					.3067 0
	628		30.52926		. 2278 1
	629		28.91686		.8656 1
	630		27.67596		. 1943 0
	631		26.43828	1 29.64477 305	.0759 0
##	632	66.72427	33.60197	1 31.50694 319	.4474 0
##	633	68.96085	34.38096	1 34.12445 333	.6878 1
##	634	64.83219	31.27550	1 26.08906 318	. 1554 1
##	635	67.27683	27.15415	0 25.04828 309	.6195 0
##	636	68.79176	31.43243	1 29.42207 314	.8045 0
##	637	67.41386	29.60929	1 31.41874 313	.9175 0
	638	68.99615			.8341 1
	639	65.44296			.7670 0
	640		30.80917		.4380 1
	641		28.81715		.7333 0
	642		31.79843		.5534 1
	643	68.76475			.5415 0
	644	69.14008			.4695 1
	645		36.39773		. 1961 1
	646	69.06280			. 2747 0
##	647	69.19081			.3958 0
##	648	65.21022	30.05257	1 25.12138 310	.9961 0
##	649	66.79420	30.20697	0 34.65512 333	.3321 1
##	650	66.70991	25.39448	1 25.00467 307	.6691 0
##	651	64.36085	31.49712	0 30.51195 318	. 1934 0
##	652	64.36949	28.73013		. 1953 0
	653		23.89955		. 1668 0
	-		-		_

		0= 0=0.1=					
	654	65.85217			2.47781	306.7117	0
##	655	68.23222	35.88714	0 34	4.26640	331.8697	1
##	656	69.23896	32.83057	1 34	4.00244	336.8703	1
##	657	68.79355	33.80854	1 33	3.54285	328.8909	1
##	658	65.19780	32.33168	1 28	8.70382	317.7103	1
##	659	64.81359	27.32012	1 24	4.06562	315.2289	1
	660	66.27095			5.59736	301.2900	0
	661	64.75067			6.85264	313.2579	0
	662	65.44452			9.55525	324.4504	1
	663	69.73085			0.80572	312.9854	0
##	664	69.77100			9.98804	318.5194	0
##	665	67.15383	31.23465	0 33	2.13476	327.0611	1
##	666	66.88582	28.50342	0 2	2.73212	307.1712	0
##	667	65.19095	26.65355	1 33	3.55774	319.4926	0
##	668	64.19327	26.56895	1 2:	1.11615	309.4154	1
##	669	64.45829	25.94062	1 2	2.05503	310.7832	1
##	670	67.49291	32.68254		2.24028	317.9484	0
##	671	63.35123			7.19923	295.9143	0
	672	64.17073			1.41788	310.9602	1
	673	62.43343			1.20479	305.6405	0
	674	67.44936			5.07387	335.4515	1
					1.53717		
	675	66.34318				327.4751	1
	676	68.31744			1.99976	309.6414	0
	677	63.37605			2.45498	313.4476	1
	678	65.32737			5.26681	314.2925	1
##	679	70.05568	32.29082	0 38	8.20869	337.3984	1
##	680	65.87146	26.53540	1 2	2.59708	308.8515	0
##	681	68.52894	25.65651	1 34	4.34329	315.8716	0
##	682	68.69163	28.87441	1 2	7.93267	308.3698	0
##	683	69.60690	30.67692	0 3!	5.51238	329.6484	1
##	684	68.00724	34.04189	1 2	7.58032	327.4437	1
##	685	66.69937	32.68302	1 33	3.03288	326.9967	1
	686		30.40372		8.59264	323.3178	1
##	687	69.00446			3.15917	325.9798	1
	688	68.00488			8.80909	337.0157	1
##	689	67.63833			2.50568	321.0478	0
	690	66.89016			6.18961	322.6865	1
	691	68.24293			8.60203	310.4031	0
	692	68.81500			1.05506	333.6144	1
	693	65.05598			5.37566	307.9780	0
##	694	66.18703	27.27445	0 28	8.62064	312.1628	0
##	695	64.38496	28.40847	1 2	7.89541	316.9880	1
##	696	66.37061	31.58866	1 28	8.60794	314.9604	0
##	697	64.12348	25.08052	0 2	2.66532	302.8563	0
##	698	64.41139	29.60419	1 30	0.22585	319.9270	1
##	699	63.93861	29.56355	1 24	4.61415	310.8795	0
##	700	65.61731	29.54117		6.80558	312.4519	0
	701	66.36357			4.22166	321.4682	0
	702	67.28192			1.74121	317.9626	0
	703	65.63557			2.43701	309.2785	0
	703	65.65654			2.52278	318.4571	0
	704	66.81416			0.97067	323.1804	1
	706	69.34023			4.12265	324.8373	1
##	707	63.67791	22.91947	1 20	0.47989	304.1477	0

	700	70 00700	00 00770	4 00 40050	0.15 0.044	^
	708		29.33773	1 30.18350	315.0044	0
##	709	67.82174		1 24.10113	311.5090	0
##	710	67.82470	29.06322	1 33.75603	320.2672	0
##	711	70.04830	32.53070	0 40.00228	335.1985	1
##	712	65.49926	31.29868	1 31.07773	316.8880	0
##	713	69.17644	29.78902	1 36.70497	335.7676	1
##	714	63.92293	31.02695	1 32.10483	314.3650	0
##	715	68.96580	29.70813	0 31.34266	323.6920	1
	716		32.13967	1 25.65600	315.0880	1
	717	66.08902		1 29.44080	315.8164	0
	718		32.59602	1 29.91576	323.8401	1
##	719		28.48226	1 29.90620	327.6491	1
##	720		32.45553	0 25.86298	299.1702	0
##	721		31.14718	1 26.97507	313.6872	0
##	722		28.91485	1 30.04169	324.5005	1
##	723	69.00152		0 28.73655	314.9100	0
##	724	65.10387		0 26.79957	328.1224	1
##	725	64.80189	30.11048	0 25.37299	306.3742	0
##	726	65.04666	26.91846	1 26.60825	317.9273	1
##	727	66.84517	29.74008	1 31.06148	318.3092	0
##	728	68.06427	30.44182	0 29.81985	326.3340	1
##	729	67.98800	29.93139	0 29.62452	316.4358	0
##	730	69.45282	30.80195	0 32.62582	328.1878	1
##	731	66.51478	31.33117	1 31.15078	323.6667	1
	732	68.07042		1 28.86896	328.3915	1
	733	66.77279		0 30.07250	316.5487	0
	734		29.77608	0 38.38307	325.5697	0
##	735		34.41403	0 39.03347	336.0610	1
##	736		29.14539		320.1130	
						0
##	737		23.73504	0 16.78627	285.0503	0
##	738		26.41667	0 15.32633	296.9212	0
##	739		27.54428	0 32.05648	311.9497	0
##	740	64.27098		0 28.55587	321.0006	1
##	741	65.91504	28.69536	1 24.87546	305.3919	0
##	742	68.85557	27.07304	1 31.77541	324.5987	1
##	743	65.72734	31.39433	0 29.94736	320.1642	1
##	744	68.01057	27.50123	0 27.73131	317.9713	1
##	745	66.23589	28.36239	0 30.18048	311.5658	0
##	746	68.86926	29.80140	0 32.71918	326.6305	1
##	747	64.95714	31.40721	1 33.16074	322.7511	0
##	748	66.50059	34.67789	0 39.47751	343.5066	1
##	749	67.21518	30.62928	0 25.97455	314.3155	0
	750		32.31736	0 36.28886	322.9999	0
	751	67.11029		0 34.14388	324.9244	1
	752	67.23965		1 29.75963	310.6404	0
	753	65.23185		1 27.52130	311.3966	0
	754 755	66.18956		0 34.72048	314.6216	0
	755	69.31340		1 37.18403	322.7363	0
##	756 757		33.05793	1 35.43949	324.3202	0
##	757	64.97226		1 29.86774	313.1754	0
	758	63.74882		1 29.65762	318.8335	0
	759	64.94643		0 29.95558	308.6117	0
	760	67.49829		0 32.48357	322.3073	1
##	761	68.04488	33.29413	1 33.11471	314.9793	0

##	762	69.01030	32.20579	0 34.27744	332.0862	1
##	763	68.28100	21.35196	1 24.08760	295.5938	0
##	764	63.58323	29.17700	1 25.34613	308.2010	0
##	765	67.31763	28.14473	0 28.26846	317.8392	1
##	766	64.36499	23.75378	1 23.80605	298.1253	0
##	767	66.07334	24.20701	0 22.33530	304.7866	0
##	768	66.70308	26.88672	0 25.69580	314.1403	1
##	769	66.56314	29.56402	1 25.86476	315.3155	1
##	770	65.05622	29.36110	0 25.70402	307.3632	0
##	771	67.18426	26.88963	0 31.69799	321.0441	0
##	772	67.76489	26.65395	1 25.11865	306.8445	0
##	773	68.66598	31.46025	1 35.10617	328.0480	1
##	774	66.46483	33.92779	0 32.73571	327.0264	1
##	775	66.98297	27.22336	1 29.32873	307.5595	0
##	776	67.59793	29.63941	1 33.87824	326.1573	1
##	777	64.80226	37.91700	1 35.36357	324.8175	0
##	778	67.61313	30.95891	1 28.88337	328.9142	1
##	779	66.83211	31.18988	1 33.90433	328.7663	1
##	780	68.02792	28.54422	0 32.81334	319.4071	0
##	781	66.43162	31.90570	1 29.79522	318.8784	0
##	782	66.95941	32.91184	0 27.12560	320.1288	1
##	783	66.13997	31.91666	1 26.54078	326.9251	1
##	784	67.66983	29.61510	0 33.69739	330.0908	1
##	785	64.76920	26.70508	0 27.53895	322.7615	1
##	786	66.40378	27.82474	0 22.57218	313.8798	1
##	787	67.48575	32.35233	1 31.65975	326.8509	1
##	788	65.73312	35.50884	0 37.10656	329.4254	1
##	789	69.89742	34.37028	0 38.62985	338.3769	1
##	790	65.48429	23.31676	0 29.05936	314.0680	0
##	791	66.62514	27.60302	0 25.30872	311.3485	0
##	792	65.94431	29.21113	0 32.20250	316.7922	0
##	793	63.68891	27.92014	0 22.37744	312.7655	1
##	794	66.37778	26.88016	1 25.07337	311.1874	0
##	795	65.67355	28.88297	0 25.67023	307.7627	0
##	796	64.91010	27.90738	1 19.31094	301.0923	0
##	797	67.64624	32.49284	0 30.66861	321.8147	1
##	798	66.15790	28.24523	0 28.32742	315.8241	0
##	799	61.94763	26.60491	1 25.14932	303.4118	0
##	800	69.30108	35.40891	1 34.44900	337.8080	1
##	801	69.00968	35.72586	1 38.03928	331.6644	1
##	802	67.71011	29.61245	1 34.51734	321.0998	0
##	803	67.77002	31.64196	0 34.51919	330.1757	1
##	804	67.23129	34.48856	1 41.35904	331.2468	0
##	805	67.90662	31.15335	0 28.80596	331.3437	1
##	806	65.67181	28.81919	1 32.03978	321.9951	1
##	807	62.35861	24.82808	1 27.30272	310.8789	0
##	808	67.36255	26.31639	1 29.39835	319.4445	1
##	809	68.09216	32.08096	1 29.82655	321.6419	1
##	810	67.28769	31.99236	1 36.28846	326.9274	1
##	811	69.48712	36.18774	0 34.00235	332.5632	1
##	812	68.88877	29.10408	0 27.70363	324.7564	1
##	813	62.13298	29.62854	1 20.93401	305.8587	0
##	814	64.60544	25.63735	0 21.47419	300.7370	0
##	815	67.92501	34.07969	1 33.07521	325.1629	1

	046	64 50060	00 01001	0 05 00405	040 7065	
	816		29.81091	0 25.92195	318.7065	1
	817		29.14811	0 24.83224	313.1905	1
##	818	65.23181	25.78832	1 29.70638	306.8923	0
##	819	70.57599	31.25355	1 30.67503	326.8842	1
##	820	61.55198	30.20055	1 25.32407	318.0327	1
##	821	69.01635	32.47168	0 37.47234	334.5522	1
##	822	65.49781	24.64731	1 20.07615	295.2276	0
	823		31.30923	1 35.25030	330.2566	1
	824		36.41335	0 32.06715	327.9576	1
	825		26.80561		309.0888	
				1 20.43667		1
	826		30.15502	1 34.90089	329.8905	1
	827		33.35323	1 28.88148	317.3855	0
	828		29.86311	1 27.11881	311.8826	0
##	829	66.78884	29.28316	1 29.29359	318.6547	1
##	830	65.06951	29.34303	1 33.11094	326.8939	1
##	831	69.18378	28.47032	0 35.49609	330.2333	1
##	832	70.03541	29.60610	0 34.11741	323.8505	0
##	833	66.70270	31.38928	1 31.43636	324.9517	1
##	834	64.56541	26.81141	0 25.16182	316.7061	1
##	835	68.02767	32.34115	0 28.38459	304.8204	0
##	836	63.04171	24.13881	1 22.68452	306.3719	0
	837		28.14356	1 29.84265	315.7519	0
	838		32.12816	0 27.56245	326.2704	1
	839		26.20781	1 23.37679	309.2105	0
	840		36.93966	0 33.89379	334.0567	1
	841		27.82580	0 19.83348	291.5804	0
	842		36.87822	1 40.62199	346.1519	1
	843		37.57465	1 33.50453	343.1531	1
##	844	67.84738	35.16648	1 30.93874	330.3713	1
##	845	66.05913	30.14367	0 28.38284	311.7397	0
##	846	67.72883	32.44597	1 41.10066	340.8590	1
##	847	67.70754	32.76310	0 28.84705	325.4213	1
##	848	69.20791	31.36483	1 33.92086	326.6287	1
##	849	66.21816	27.95772	1 19.16444	304.1321	0
##	850	68.14473	31.26965	0 36.15329	323.6092	0
	851		32.65724	1 37.44649	323.6974	0
	852		28.70308	1 28.45161	316.7505	0
	853		29.30483	1 29.18484	323.1109	1
	854		34.74405	0 40.23228	348.1215	1
	855		30.11972	1 29.17905	323.7149	1
	856		31.51069	1 29.18503	317.6085	0
	857		30.03406	1 34.91275	328.5051	1
	858		29.50028	1 29.07365	317.1386	0
	859	67.80703		1 28.94265	315.9392	0
	860		30.57368	1 31.16021	321.3392	1
	861		23.91006	0 25.22337	305.0277	0
##	862		29.73502	1 25.44366	310.3192	0
##	863	67.42711	31.20680	1 29.30283	326.3209	1
##	864	62.78391	28.36965	1 21.35871	313.1118	1
##	865	66.32915	32.93968	1 30.44695	321.0329	1
##	866	59.83978	20.99936	0 15.34652	300.0027	0
	867		30.90705	0 31.10079	322.1860	1
	868		28.84526	1 21.89166	316.3466	1
	869		29.82211	1 33.64283	321.2978	0
	555	55.50011		1 00.01200	321.20.0	•

			00 44000	_	04 40004	000 0470	
	870		30.41208		34.47271	326.6479	1
##	871	67.05490	29.53941	1	30.80954	322.2828	1
##	872	68.69454	32.24995	0	28.05978	327.2393	1
##	873	69.81691	31.73474	1	35.10095	317.9377	0
##	874	62.23115	22.75869	1	19.19790	302.4175	0
##	875	69.05689	28.39978	1	33.37813	323.3750	0
##	876	63.41564	24.72208	0	25.74148	310.6834	0
	877		31.49008	1		332.4264	1
	878		33.09438	1		321.2737	1
	879		30.22225	1		324.1160	1
##	880		30.44574	1		324.7442	1
##	881		32.81136		34.13440	337.8601	
				0			1
##	882		28.95790	0	27.96470	313.5577	0
	883		30.74262	1		314.2011	1
##	884		29.00321	1		307.7370	0
##	885		31.44768	1		329.0398	1
##	886	63.86944	32.85404	1	30.23285	315.5085	0
##	887	65.20622	27.29336	1	28.56150	314.0012	0
##	888	68.89380	31.97850	0	34.83047	326.7711	1
##	889	62.88923	29.43124	0	29.55755	328.5948	1
##	890	65.39054	33.66215	1	30.94186	332.7022	1
##	891	67.41562	32.05001	1	32.96520	325.7835	1
##	892	67.21080	25.54360	1	26.17645	305.2615	0
##	893	64.87114	30.06131	1	23.56881	315.1673	1
	894	64.14255	25.72977	0	26.89174	311.1541	0
	895		25.15428	1		301.7569	0
	896		24.20771	0	26.11387	312.7806	0
	897		25.20975	0	21.10914	310.4902	1
	898		27.10829	0	23.15863	308.0615	0
	899		29.42992	1		318.2524	
				_			1
##	900		30.40694	0		314.5179	0
	901		30.77297	1		330.5852	1
	902		31.59649	0	29.90476	324.2801	1
	903		26.43513	0	27.38029	315.4126	0
##	904		28.86992	1	30.29371	322.2761	1
##	905		28.39624	1		314.5061	0
##	906	66.92148	33.38942	1	39.02681	330.8808	1
##	907	67.57558	30.66012	1	33.59878	318.2162	0
##	908	70.70819	33.86295	1	38.94217	333.8791	1
##	909	69.87597	28.01526	0	29.22676	315.7492	0
##	910	67.45012	31.67127	1	33.82003	322.7451	0
##	911	70.56928	38.32499	0	40.17628	342.1996	1
##	912	67.82174	31.46777	1	29.80398	328.9261	1
	913	63.30542	30.17162	1	28.60923	321.3808	1
	914		33.66128		41.08790	344.5223	1
	915		35.88348		33.94953	326.3765	1
	916	69.00841			29.76815	316.8429	0
	917		25.86678		24.84277	314.3722	1
	918		30.78830		31.66767	326.4867	1
	919		31.00043		37.33243	327.4619	0
	920		31.69372		33.60596	322.1170	0
	921		32.85339		32.27504	318.6398	0
	922		34.62794		38.96575	338.1843	1
##	923	69.09494	28.90151	0	26.94132	311.8169	0

##	924	66.93526	28.63135	0	29.77503	313.9634	0
##	925	65.61373	31.02659	1	36.55512	330.4872	1
##	926	71.12416	33.07208	0	33.72406	322.5044	0
##	927	65.85077	32.86111	0	30.24509	319.8679	1
##	928	65.02208	27.28222	0	27.87632	321.3948	1
	929	68.27696		1		331.3647	1
	930	67.88893		0	31.53510	324.6613	1
	931	67.99139				313.2792	
				1			0
	932	69.55824		0	30.76704	321.8062	1
	933	67.90729		1		313.6567	0
##	934	65.22568		0	27.12041	312.7233	0
##	935	65.87924	36.23847	0	39.54841	346.3083	1
##	936	68.21870	29.95949	0	32.87971	320.3267	0
##	937	72.08580	28.32875	1	34.91448	324.4541	0
##	938	67.71012	28.98600	1	33.10547	323.8144	1
##	939	62.57536	24.66160	1	18.81592	304.2448	0
	940	66.16736		1		317.5962	1
	941	67.32715		1		316.5994	0
	942	68.23273		0	36.75974	328.7539	1
	943	69.00100		1		331.9747	1
	944	68.97136			39.57490	338.1154	1
				0			
	945	69.57568		1		333.6727	1
	946	65.54782		1		320.3121	1
	947	65.92089		1		334.5432	1
##	948	67.51103		1		330.3456	1
##	949	71.58583	34.64195	0	38.78522	330.5486	1
##	950	66.24755	27.33248	1	32.03948	319.8120	0
##	951	63.68079	28.31848	1	29.38110	322.3733	1
##	952	67.41144	31.13595	1	36.01256	333.9755	1
##	953	67.35450	33.96245	0	30.25470	310.9476	0
##	954	67.16805	32.82898	1	31.35947	323.9211	1
	955	65.31174		1		319.7865	1
	956	64.01837		1		319.0887	1
	957	65.98614		0	32.22940	329.9126	1
	958	63.77351		1			0
						310.8945	
##	959	68.10622		0	36.19989	324.3495	0
	960	64.78304		_	30.19376	324.1565	1
	961	63.97175		0	28.28148	320.5932	1
	962	67.43476			24.33908	311.5036	0
##	963	64.12722		1	27.43914	324.1525	1
##	964	70.62706	32.70205	0	40.16653	328.4001	0
##	965	69.22922	34.63178	0	32.99623	329.6339	1
##	966	70.30632	30.97733	0	34.57911	320.3709	0
##	967	69.83279	31.46854	0	34.55927	327.8138	1
##	968	69.73532	31.28013	0	30.20650	311.3035	0
	969	64.83619		0	25.21379	313.9646	1
	970	65.05118		0	30.14905	312.1155	0
	971	68.28150			26.93800	313.8718	0
	972	65.07010			28.54625	319.3633	1
	973	70.45880			34.78148	328.2712	1
	974	66.71653			22.63006	311.8856	1
	975	65.46049			28.62017	326.0630	1
	976	64.27287			21.43495	298.4258	0
##	977	68.44831	30.72439	1	33.51544	321.8556	0

```
## 978 66.02081 29.01491
                                   0 23.30142 317.3849
## 979
       67.55163 27.55928
                                   0 26.65638 305.8441
                                                                  0
## 980
       69.35104 34.67762
                                   1 35.23934 331.8793
                                                                  1
       68.41294 27.89819
                                   0 26.97399 322.4132
## 981
                                                                  1
## 982
       68.04933 34.20614
                                   1 38.90412 338.0543
                                                                  1
## 983
       64.73696 23.00685
                                   1 20.99680 301.1880
                                                                  0
## 984
       66.93553 29.40742
                                   0 29.50874 321.5949
       67.03044 34.69814
                                   1 34.09944 333.4082
## 985
                                                                  1
## 986
       67.73068 31.70764
                                   1 31.30266 334.6761
                                                                  1
## 987
                                   1 34.12570 333.8368
       67.48544 31.01939
                                                                  1
## 988
       66.34382 26.94867
                                   1 26.12687 317.3451
                                                                  1
                                   1 30.97767 321.5697
## 989
       68.23981 34.76319
                                                                  1
       66.08877 29.17492
## 990
                                   1 31.61186 316.8233
                                                                  0
## 991
       62.67335 25.02585
                                   0 22.97099 301.9745
                                                                  0
## 992
       65.36204 28.73545
                                   1 24.75227 314.0965
                                                                  1
## 993
       64.49986 24.84314
                                   1 23.84209 316.2311
                                                                  1
## 994
       69.40515 32.02273
                                   0 33.33508 326.2928
                                                                  1
                                   0 21.22395 297.9936
## 995
       65.37957 25.44476
                                                                  0
## 996
       65.37371 25.04946
                                   1 23.39048 306.5177
                                                                  0
                                   1 40.62693 331.7861
## 997
       70.45650 36.96792
                                                                  0
                                   0 31.13381 328.1399
## 998
       68.80723 29.91399
                                                                  1
## 999 67.19524 29.62473
                                   0 26.02773 309.6063
                                                                  0
## 1000 66.67748 26.96686
                                   1 24.35153 307.6401
                                                                  0
```

PASO 1: Analisis univariado

```
univariable_edad <- glm(dfa$abortosn ~ dfa$Edad, family = binomial, data = data)
summary(univariable_edad)</pre>
```

```
##
## Call:
## glm(formula = dfa$abortosn ~ dfa$Edad, family = binomial, data = data)
## Deviance Residuals:
##
      Min
                 1Q
                     Median
                                   3Q
                                           Max
## -1.6789 -1.1895
                     0.8807
                               1.0942
                                        1.5530
##
## Coefficients:
                Estimate Std. Error z value Pr(>|z|)
## (Intercept) -12.41670
                            2.17745 -5.702 1.18e-08 ***
## dfa$Edad
                 0.18792
                            0.03257
                                     5.769 7.96e-09 ***
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 1381.1 on 999 degrees of freedom
## Residual deviance: 1346.2 on 998 degrees of freedom
## AIC: 1350.2
##
## Number of Fisher Scoring iterations: 4
```

```
univariable_dap <- glm(dfa$abortosn ~ dfa$dap, family = binomial, data = data)
summary(univariable_dap)
##
## Call:
## glm(formula = dfa$abortosn ~ dfa$dap, family = binomial, data = data)
## Deviance Residuals:
      Min
                 1Q
                     Median
                                   3Q
                                           Max
## -2.4489 -1.0358
                     0.4954
                                        1.9773
                               0.9560
## Coefficients:
               Estimate Std. Error z value Pr(>|z|)
                            0.84781 -12.27
## (Intercept) -10.40302
                                              <2e-16 ***
## dfa$dap
                 0.35210
                            0.02825
                                      12.46
                                              <2e-16 ***
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 1381.1 on 999 degrees of freedom
## Residual deviance: 1175.4 on 998 degrees of freedom
## AIC: 1179.4
##
## Number of Fisher Scoring iterations: 3
univariable_h <- glm(dfa$abortosn ~ dfa$hibrido, family = binomial, data = data)
summary(univariable_h) #No relacionada
##
## glm(formula = dfa$abortosn ~ dfa$hibrido, family = binomial,
##
      data = data)
##
## Deviance Residuals:
     Min
              1Q Median
                                      Max
                               3Q
## -1.256 -1.256
                   1.101
                           1.101
                                    1.141
##
## Coefficients:
              Estimate Std. Error z value Pr(>|z|)
                           0.10022
## (Intercept) 0.08526
                                     0.851
                                              0.395
## dfa$hibrido 0.09828
                           0.12944
                                     0.759
                                              0.448
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 1381.1 on 999 degrees of freedom
## Residual deviance: 1380.5 on 998 degrees of freedom
## AIC: 1384.5
##
## Number of Fisher Scoring iterations: 3
```

```
univariable_rto <- glm(dfa$abortosn ~ dfa$rto, family = binomial, data = data)
summary(univariable_rto)
##
## Call:
## glm(formula = dfa$abortosn ~ dfa$rto, family = binomial, data = data)
## Deviance Residuals:
##
      Min
                10
                     Median
                                  30
## -2.0333 -1.1531
                    0.7288
                              1.0660
                                        1.7079
## Coefficients:
              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -3.38584
                          0.42935 -7.886 3.12e-15 ***
## dfa$rto
               0.11831
                          0.01425
                                   8.300 < 2e-16 ***
## ---
## Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
##
      Null deviance: 1381.1 on 999 degrees of freedom
## Residual deviance: 1304.5 on 998 degrees of freedom
## AIC: 1308.5
##
## Number of Fisher Scoring iterations: 4
univariable_cloA <- glm(dfa$abortosn ~ dfa$clolA, family = binomial, data = data)
summary(univariable_cloA)
##
## Call:
## glm(formula = dfa$abortosn ~ dfa$clolA, family = binomial, data = data)
## Deviance Residuals:
##
      Min
                 1Q
                     Median
                                  3Q
                                          Max
## -2.9643 -0.5890
                    0.1353
                              0.6078
                                       2.3735
##
## Coefficients:
##
               Estimate Std. Error z value Pr(>|z|)
## (Intercept) -78.27016
                           4.90288 -15.96 <2e-16 ***
## dfa$clolA
                0.24547
                           0.01536
                                    15.98
                                             <2e-16 ***
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
##
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 1381.11 on 999 degrees of freedom
## Residual deviance: 804.08 on 998 degrees of freedom
## AIC: 808.08
##
## Number of Fisher Scoring iterations: 5
```

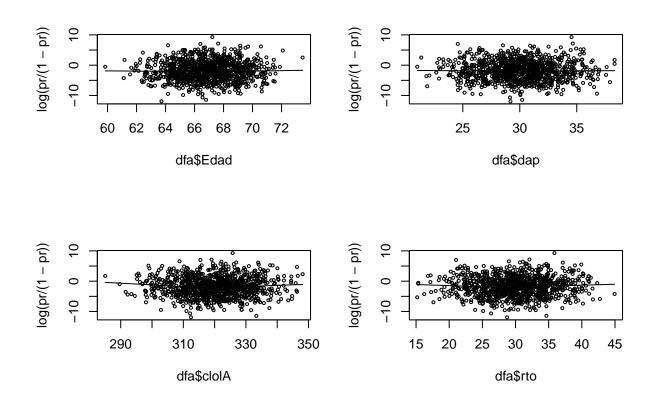
PASO 2: Comparaciones de modelos multivariados

```
model1 <- glm(dfa$abortosn ~ dfa$Edad + dfa$dap + dfa$hibrido + dfa$rto + dfa$clolA, family = binomial,
summary(model1)
##
## Call:
## glm(formula = dfa$abortosn ~ dfa$Edad + dfa$dap + dfa$hibrido +
       dfa$rto + dfa$clolA, family = binomial, data = data)
##
## Deviance Residuals:
        Min
                    10
                            Median
                                          3Q
                                                     Max
## -0.004052
              0.000000
                          0.000000
                                    0.000000
                                                0.004977
##
## Coefficients:
##
                Estimate Std. Error z value Pr(>|z|)
## (Intercept) -2.831e+05 2.526e+06 -0.112
                                               0.911
## dfa$Edad
              -2.889e+01 9.552e+02 -0.030
                                                0.976
## dfa$dap
              -1.468e+01 6.051e+02 -0.024
                                               0.981
## dfa$hibrido 8.142e+00 1.806e+03
                                     0.005
                                                0.996
## dfa$rto
              -1.216e+03 1.083e+04 -0.112
                                               0.911
## dfa$clolA
             1.008e+03 8.955e+03
                                     0.113
                                               0.910
##
## (Dispersion parameter for binomial family taken to be 1)
##
       Null deviance: 1.3811e+03 on 999 degrees of freedom
## Residual deviance: 6.8798e-05 on 994 degrees of freedom
## AIC: 12
##
## Number of Fisher Scoring iterations: 25
#Ninguna variable se esta quedando
model2 <- glm(dfa$abortosn ~ dfa$Edad + dfa$dap + dfa$rto + dfa$clolA, family = binomial, data = data)
summary(model2)
##
## glm(formula = dfa$abortosn ~ dfa$Edad + dfa$dap + dfa$rto + dfa$clolA,
##
      family = binomial, data = data)
##
## Deviance Residuals:
        Min
                            Median
                                                     Max
## -0.004119
              0.000000
                          0.000000
                                    0.000000
                                                0.005058
##
## Coefficients:
                Estimate Std. Error z value Pr(>|z|)
## (Intercept) -282927.85 2513368.51 -0.113
                                               0.910
## dfa$Edad
                  -29.00
                              967.13 -0.030
                                                0.976
                  -14.74
## dfa$dap
                              611.70 -0.024
                                                0.981
## dfa$rto
                -1214.79
                           10782.48 -0.113
                                                0.910
## dfa$clolA
                 1007.76
                           8914.65 0.113
                                               0.910
## (Dispersion parameter for binomial family taken to be 1)
```

```
##
      Null deviance: 1.3811e+03 on 999 degrees of freedom
## Residual deviance: 6.8893e-05 on 995 degrees of freedom
## AIC: 10
## Number of Fisher Scoring iterations: 25
#Ninguna variable se esta quedando
#El modelo no sirve?
delta.coef <- abs((coef(model2)-coef(model1)[-c(4)])/coef(model1)[-c(4)])</pre>
round(delta.coef, 6)
## (Intercept)
                  dfa$Edad
                              dfa$dap
                                           dfa$rto
                                                     dfa$clolA
##
     0.000686
                  0.004095
                              0.004144
                                          0.000652
                                                      0.000622
#no hay cambio superior al 20%, entonces hibrido queda por fuera
library(lmtest)
## Loading required package: zoo
## Attaching package: 'zoo'
## The following objects are masked from 'package:base':
##
##
       as.Date, as.Date.numeric
lrtest(model2, model1)
## Likelihood ratio test
## Model 1: dfa$abortosn ~ dfa$Edad + dfa$dap + dfa$rto + dfa$clolA
## Model 2: dfa$abortosn ~ dfa$Edad + dfa$dap + dfa$hibrido + dfa$rto + dfa$clolA
   #Df
             LogLik Df Chisq Pr(>Chisq)
## 1 5 -3.4446e-05
## 2 6 -3.4399e-05 1
                                  0.9998
anova(model2, model1, test = 'Chisq')
## Analysis of Deviance Table
## Model 1: dfa$abortosn ~ dfa$Edad + dfa$dap + dfa$rto + dfa$clolA
## Model 2: dfa$abortosn ~ dfa$Edad + dfa$dap + dfa$hibrido + dfa$rto + dfa$clolA
   Resid. Df Resid. Dev Df
                              Deviance Pr(>Chi)
## 1
         995 6.8893e-05
## 2
         994 6.8798e-05 1 9.5214e-08 0.9998
```

PASO 3: Suposicion de linealidad

```
par(mfrow = c(2,2))
scatter.smooth(dfa$Edad, log(pr/(1-pr)), cex = 0.5)
scatter.smooth(dfa$dap, log(pr/(1-pr)), cex = 0.5)
scatter.smooth(dfa$clolA, log(pr/(1-pr)), cex = 0.5)
scatter.smooth(dfa$rto, log(pr/(1-pr)), cex = 0.5)
```



##Ninguna variable tiene relacion lineal con los abortos