Universidad Autónoma de Tamaulipas

Facultad de Ingeniería Tampico

Proyecto Final de Álgebra Lineal

Descifrado de Mensajes mediante Inversas Modulares

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Introducción

En este proyecto aplicarás los conceptos de **matrices inversas** y **aritmética modular** para resolver un problema de descifrado de mensajes. Cada estudiante recibe una **matriz llave** K y una **cadena cifrada** que representa un mensaje oculto. Tu tarea consiste en obtener la inversa modular de K módulo 29, y usarla para recuperar el mensaje original.

Este proyecto forma parte del *Producto Integrador de Álgebra Lineal*, y busca que apliques el conocimiento adquirido para resolver una situación de codificación y comunicación segura.

Objetivo del Proyecto

Aplicar el concepto de matriz inversa modular para descifrar un mensaje codificado, demostrando dominio en el manejo de operaciones matriciales en aritmética modular.

Instrucciones Generales

1. Calcula la inversa modular K^{-1} de la matriz llave K módulo 29.

2. Multiplica K^{-1} por los bloques de 3 números de la cadena cifrada para recuperar el mensaje.

3. Usa la siguiente tabla de equivalencias:

$$A = 0,\ B = 1,\ \ldots,\ \tilde{N} = 14,\ \ldots,\ Z = 26,\ \text{espacio} = 27,\ \text{punto} = 28$$

4. Escribe el mensaje descifrado y una breve interpretación del mismo.

5. Entrega un reporte con:

   - Desarrollo completo de los cálculos de la inversa modular.
   - Proceso de descifrado (multiplicaciones mod 29).
   - Mensaje final obtenido.
   - Reflexión sobre la utilidad de las matrices en problemas reales.

Ejemplo de Resolución

Supongamos que la matriz llave es:

$$K = \begin{pmatrix} 2 & 3 \\ 1 & 4 \end{pmatrix} \quad (\text{mód } 29)$$

El determinante es $\det(K) = 2(4) - 3(1) = 5$, y su inverso módulo 29 es $5^{-1} = 6$. Entonces:

$$K^{-1} = 6 \begin{pmatrix} 4 & -3 \\ -1 & 2 \end{pmatrix} = \begin{pmatrix} 24 & 11 \\ 23 & 12 \end{pmatrix} \quad (\text{mód } 29)$$

Si la cadena cifrada es:

$$\begin{bmatrix} 7 \\ 4 \end{bmatrix},\ \begin{bmatrix} 0 \\ 2 \end{bmatrix},\ \begin{bmatrix} 14 \\ 11 \end{bmatrix}$$

entonces multiplicando cada bloque por K^{-1} módulo 29 se obtiene la secuencia descifrada, que puede traducirse según la tabla alfabética para obtener el mensaje original.

Proyectos Individuales

A continuación se presentan los proyectos asignados a cada estudiante. Cada uno cuenta con un espacio para anotar su información personal y desarrollar su descifrado.

Proyecto 001

Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 3{,}0 & 1{,}0 \\ 9{,}0 & 3{,}0 & 8{,}0 \\ 9{,}0 & 7{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

206,0	414,0	477,0	148,0	209,0	276,0	166,0	317,0	340,0	202,0	411,0	458,0	66,0
203,0	242,0	57,0	102,0	144,0	165,0	309,0	331,0	250,0	410,0	449,0	202,0	411,0
458,0	133,0	244,0	278,0	165,0	254,0	268,0	126,0	166,0	279,0	249,0	380,0	504,0
191,0	325,0	414,0	210,0	420,0	467,0	184,0	387,0	474,0	188,0	299,0	332,0	124,0
318,0	421,0	101,0	186,0	306,0	204,0	408,0	511,0	179,0	337,0	377,0	204,0	408,0
511,0	282,0	314,0	423,0	126,0	272,0	295,0	235,0	374,0	394,0	173,0	289,0	323,0
65,0	195,0	233,0	231,0	342,0	358,0	119,0	252,0	330,0	145,0	245,0	338,0	220,0
368,0	495,0	171,0	306,0	432,0	81,0	289,0	334,0					

Proyecto 002
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 4{,}0 & 1{,}0 \\ 3{,}0 & 3{,}0 & 5{,}0 \\ 6{,}0 & 8{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

68,0	93,0	160,0	75,0	81,0	141,0	32,0	35,0	60,0	133,0	207,0	371,0	57,0
92,0	155,0	186,0	202,0	382,0	131,0	152,0	249,0	167,0	210,0	349,0	191,0	139,0
305,0	194,0	156,0	286,0	189,0	165,0	291,0	147,0	102,0	225,0	115,0	111,0	221,0
106,0	157,0	282,0	203,0	151,0	341,0	234,0	198,0	414,0	127,0	149,0	313,0	85,0
120,0	215,0	219,0	150,0	345,0	98,0	149,0	234,0	154,0	176,0	358,0	79,0	62,0
157,0	192,0	180,0	312,0	47,0	49,0	89,0	220,0	155,0	352,0	107,0	79,0	149,0
169,0	127,0	279,0	187,0	138,0	257,0	101,0	110,0	183,0	67,0	41,0	85,0	193,0
219,0	359,0	150,0	166,0	274,0	195,0	229,0	373,0					

Proyecto 003
Nombre del alumno: _____
Matrícula: _____　　　　**Grupo:** _____　**Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 8{,}0 & 8{,}0 \\ 6{,}0 & 6{,}0 & 1{,}0 \\ 9{,}0 & 1{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

196,0	97,0	261,0	193,0	241,0	264,0	276,0	237,0	270,0	201,0	67,0	184,0	249,0
283,0	271,0	127,0	99,0	191,0	343,0	141,0	275,0	197,0	169,0	92,0	94,0	133,0
174,0	410,0	265,0	305,0	183,0	66,0	192,0	295,0	165,0	185,0	425,0	295,0	350,0
395,0	235,0	260,0	59,0	23,0	51,0	297,0	279,0	222,0	269,0	183,0	268,0	265,0
230,0	364,0	250,0	180,0	347,0	276,0	192,0	333,0	196,0	97,0	261,0	225,0	195,0
366,0	238,0	221,0	220,0	177,0	139,0	55,0	191,0	122,0	234,0	316,0	177,0	401,0
155,0	85,0	77,0	261,0	207,0	225,0	284,0	213,0	313,0	217,0	184,0	372,0	206,0
152,0	279,0	268,0	81,0	257,0	364,0	203,0	421,0					

Proyecto 004
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5,0 & 1,0 & 6,0 \\ 2,0 & 4,0 & 4,0 \\ 4,0 & 4,0 & 9,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

266,0	182,0	355,0	102,0	92,0	141,0	150,0	94,0	203,0	267,0	168,0	343,0	155,0
96,0	207,0	263,0	152,0	327,0	148,0	154,0	261,0	222,0	226,0	369,0	62,0	130,0
157,0	209,0	132,0	263,0	157,0	122,0	181,0	140,0	136,0	197,0	169,0	90,0	169,0
278,0	206,0	365,0	134,0	94,0	182,0	206,0	194,0	339,0	119,0	88,0	145,0	95,0
108,0	141,0	115,0	148,0	191,0	251,0	194,0	359,0	141,0	100,0	171,0	255,0	210,0
375,0	170,0	170,0	235,0	203,0	162,0	287,0	185,0	100,0	210,0	30,0	46,0	57,0
208,0	166,0	265,0	158,0	158,0	244,0	99,0	78,0	155,0	123,0	148,0	189,0	128,0
124,0	181,0	104,0	64,0	117,0	334,0	270,0	469,0					

Proyecto 005
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

6

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 8{,}0 & 5{,}0 \\ 6{,}0 & 8{,}0 & 5{,}0 \\ 2{,}0 & 3{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

239,0	215,0	135,0	276,0	234,0	125,0	315,0	261,0	123,0	205,0	177,0	82,0	249,0
247,0	103,0	428,0	400,0	189,0	484,0	442,0	203,0	129,0	127,0	58,0	347,0	319,0
148,0	349,0	295,0	106,0	287,0	251,0	147,0	279,0	243,0	127,0	326,0	296,0	154,0
319,0	309,0	172,0	284,0	248,0	131,0	407,0	377,0	195,0	214,0	208,0	107,0	365,0
311,0	112,0	398,0	346,0	153,0	157,0	155,0	77,0	252,0	242,0	132,0	461,0	431,0
211,0	293,0	239,0	102,0	221,0	183,0	83,0	269,0	237,0	104,0	255,0	227,0	139,0
139,0	137,0	66,0	309,0	279,0	120,0	339,0	299,0	139,0	304,0	250,0	121,0	254,0
218,0	107,0	207,0	199,0	131,0	369,0	331,0	181,0					

Proyecto 006
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 6{,}0 & 4{,}0 \\ 6{,}0 & 9{,}0 & 9{,}0 \\ 3{,}0 & 2{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

276,0	438,0	210,0	242,0	330,0	115,0	130,0	240,0	117,0	206,0	243,0	114,0	168,0
222,0	108,0	148,0	207,0	59,0	290,0	396,0	133,0	294,0	429,0	172,0	342,0	495,0
218,0	74,0	111,0	48,0	296,0	402,0	136,0	192,0	300,0	144,0	194,0	336,0	143,0
222,0	411,0	174,0	148,0	216,0	56,0	258,0	414,0	175,0	156,0	261,0	127,0	206,0
243,0	114,0	144,0	177,0	89,0	252,0	432,0	192,0	164,0	267,0	141,0	112,0	156,0
46,0	186,0	228,0	93,0	264,0	360,0	114,0	282,0	459,0	208,0	72,0	135,0	71,0
192,0	330,0	176,0	206,0	279,0	102,0	126,0	144,0	71,0	200,0	315,0	127,0	290,0
369,0	142,0	246,0	402,0	141,0	284,0	432,0	228,0					

Proyecto 007
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1,0 & 5,0 & 9,0 \\ 6,0 & 8,0 & 6,0 \\ 7,0 & 1,0 & 7,0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

238,0	206,0	232,0	82,0	208,0	226,0	117,0	198,0	131,0	274,0	326,0	372,0	318,0
304,0	238,0	44,0	50,0	50,0	253,0	300,0	125,0	263,0	274,0	153,0	382,0	424,0
278,0	295,0	456,0	307,0	83,0	170,0	165,0	194,0	330,0	160,0	176,0	318,0	146,0
30,0	44,0	18,0	182,0	368,0	246,0	238,0	268,0	146,0	306,0	426,0	272,0	289,0
328,0	341,0	42,0	134,0	148,0	343,0	344,0	243,0	200,0	178,0	166,0	102,0	126,0
72,0	185,0	224,0	253,0	177,0	276,0	297,0	293,0	396,0	237,0	97,0	84,0	73,0
102,0	160,0	70,0	257,0	224,0	253,0	93,0	120,0	65,0	110,0	162,0	164,0	339,0
320,0	215,0	177,0	192,0	149,0	293,0	344,0	393,0					

Proyecto 008
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 4{,}0 & 6{,}0 \\ 2{,}0 & 3{,}0 & 1{,}0 \\ 6{,}0 & 5{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

240,0	73,0	225,0	162,0	65,0	163,0	156,0	48,0	150,0	144,0	58,0	148,0	254,0
103,0	259,0	296,0	88,0	282,0	216,0	91,0	227,0	330,0	131,0	337,0	72,0	28,0
74,0	246,0	75,0	237,0	124,0	73,0	141,0	356,0	126,0	352,0	144,0	92,0	170,0
114,0	63,0	127,0	340,0	114,0	332,0	56,0	31,0	63,0	318,0	135,0	329,0	254,0
75,0	241,0	238,0	62,0	220,0	300,0	84,0	282,0	86,0	48,0	96,0	294,0	127,0
305,0	130,0	42,0	128,0	174,0	70,0	180,0	244,0	86,0	236,0	46,0	13,0	43,0
138,0	87,0	161,0	220,0	48,0	194,0	144,0	49,0	139,0	112,0	50,0	116,0	184,0
36,0	158,0	276,0	124,0	290,0	136,0	47,0	135,0	306,0	98,0	292,0		

Proyecto 009
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 5{,}0 & 3{,}0 \\ 8{,}0 & 9{,}0 & 8{,}0 \\ 2{,}0 & 4{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

259,0	449,0	209,0	180,0	287,0	119,0	188,0	305,0	135,0	246,0	421,0	195,0	110,0
229,0	123,0	84,0	153,0	72,0	185,0	297,0	130,0	271,0	413,0	169,0	246,0	421,0
195,0	158,0	261,0	116,0	168,0	241,0	92,0	185,0	323,0	143,0	316,0	523,0	226,0
246,0	418,0	187,0	253,0	429,0	197,0	254,0	463,0	223,0	204,0	309,0	125,0	211,0
427,0	221,0	178,0	347,0	170,0	281,0	507,0	241,0	211,0	349,0	156,0	281,0	507,0
241,0	313,0	451,0	163,0	153,0	265,0	125,0	242,0	353,0	138,0	193,0	301,0	126,0
107,0	221,0	118,0	311,0	459,0	175,0	232,0	389,0	170,0	72,0	164,0	93,0	264,0
395,0	149,0	164,0	279,0	127,0	231,0	385,0	172,0	253,0	471,0	231,0		

Proyecto 010
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8,0 & 9,0 & 5,0 \\ 3,0 & 9,0 & 5,0 \\ 6,0 & 9,0 & 1,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

368,0	273,0	222,0	229,0	169,0	185,0	160,0	125,0	70,0	340,0	240,0	192,0	168,0
128,0	76,0	304,0	204,0	156,0	266,0	261,0	180,0	440,0	395,0	322,0	276,0	271,0
254,0	284,0	194,0	172,0	365,0	230,0	307,0	349,0	259,0	293,0	277,0	142,0	203,0
474,0	339,0	336,0	187,0	142,0	113,0	346,0	321,0	228,0	234,0	154,0	182,0	288,0
218,0	256,0	370,0	300,0	330,0	381,0	306,0	243,0	260,0	170,0	196,0	417,0	342,0
279,0	458,0	333,0	396,0	341,0	266,0	235,0	239,0	139,0	143,0	110,0	95,0	100,0
285,0	150,0	183,0	281,0	246,0	195,0	317,0	272,0	247,0	576,0	441,0	414,0	236,0
126,0	180,0	385,0	285,0	273,0	586,0	451,0	416,0					

Proyecto 011
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 5{,}0 & 6{,}0 \\ 8{,}0 & 8{,}0 & 4{,}0 \\ 6{,}0 & 2{,}0 & 5{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

251,0	212,0	209,0	272,0	256,0	228,0	294,0	300,0	243,0	182,0	196,0	141,0	172,0
244,0	85,0	353,0	408,0	238,0	402,0	464,0	280,0	97,0	124,0	55,0	288,0	332,0
199,0	275,0	348,0	199,0	293,0	260,0	245,0	265,0	260,0	213,0	297,0	304,0	224,0
287,0	292,0	201,0	271,0	264,0	218,0	362,0	380,0	263,0	180,0	200,0	118,0	285,0
364,0	203,0	341,0	384,0	256,0	126,0	148,0	77,0	225,0	232,0	158,0	390,0	436,0
269,0	263,0	284,0	215,0	202,0	212,0	165,0	226,0	260,0	165,0	265,0	228,0	221,0
215,0	268,0	147,0	149,0	164,0	125,0	222,0	248,0	154,0	263,0	284,0	215,0	181,0
172,0	151,0	84,0	100,0	65,0	438,0	452,0	337,0					

Proyecto 012
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

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Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 5{,}0 & 6{,}0 \\ 2{,}0 & 1{,}0 & 1{,}0 \\ 7{,}0 & 7{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

340,0	74,0	223,0	247,0	58,0	264,0	167,0	32,0	82,0	239,0	63,0	222,0	202,0
50,0	163,0	138,0	31,0	169,0	291,0	68,0	320,0	323,0	73,0	288,0	395,0	91,0
322,0	85,0	19,0	68,0	298,0	70,0	327,0	236,0	52,0	158,0	225,0	44,0	153,0
259,0	47,0	160,0	132,0	28,0	169,0	295,0	62,0	224,0	196,0	41,0	116,0	239,0
63,0	222,0	174,0	45,0	146,0	300,0	60,0	195,0	216,0	47,0	118,0	106,0	24,0
127,0	203,0	52,0	206,0	258,0	60,0	297,0	337,0	71,0	230,0	98,0	19,0	40,0
258,0	54,0	125,0	256,0	60,0	209,0	213,0	55,0	232,0	211,0	41,0	151,0	266,0
67,0	208,0	232,0	47,0	172,0	241,0	51,0	216,0	488,0	108,0	393,0		

Proyecto 013
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

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Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 1{,}0 & 5{,}0 \\ 4{,}0 & 2{,}0 & 6{,}0 \\ 8{,}0 & 2{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

204,0	164,0	174,0	263,0	136,0	238,0	205,0	104,0	182,0	166,0	150,0	158,0	199,0
220,0	186,0	243,0	192,0	210,0	133,0	94,0	140,0	218,0	188,0	218,0	154,0	162,0
144,0	44,0	54,0	48,0	293,0	244,0	282,0	222,0	174,0	204,0	264,0	146,0	252,0
298,0	236,0	254,0	219,0	164,0	214,0	84,0	78,0	88,0	243,0	184,0	242,0	190,0
148,0	186,0	216,0	146,0	212,0	178,0	140,0	186,0	178,0	140,0	186,0	171,0	126,0
172,0	155,0	94,0	140,0	314,0	276,0	298,0	336,0	222,0	294,0	73,0	56,0	66,0
194,0	132,0	202,0	187,0	130,0	184,0	155,0	94,0	140,0	324,0	206,0	282,0	237,0
166,0	210,0	176,0	188,0	150,0	150,0	140,0	126,0	209,0	232,0	194,0		

Proyecto 014
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

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Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 6{,}0 & 1{,}0 \\ 1{,}0 & 7{,}0 & 2{,}0 \\ 7{,}0 & 9{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

47,0	65,0	115,0	71,0	51,0	217,0	101,0	106,0	202,0	85,0	87,0	245,0	121,0
157,0	215,0	16,0	18,0	38,0	177,0	216,0	276,0	140,0	177,0	223,0	201,0	245,0
351,0	227,0	244,0	448,0	65,0	56,0	172,0	195,0	213,0	351,0	193,0	209,0	347,0
27,0	31,0	45,0	191,0	191,0	397,0	141,0	173,0	231,0	215,0	241,0	403,0	99,0
110,0	246,0	46,0	30,0	146,0	151,0	192,0	260,0	57,0	77,0	111,0	66,0	78,0
114,0	60,0	61,0	171,0	87,0	78,0	246,0	206,0	235,0	373,0	29,0	40,0	52,0
97,0	109,0	167,0	51,0	70,0	126,0	105,0	108,0	240,0	115,0	107,0	257,0	116,0
145,0	199,0	93,0	85,0	255,0	50,0	66,0	94,0	99,0	113,0	243,0		

Proyecto 015
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 9,0 & 2,0 \\ 7,0 & 1,0 & 2,0 \\ 9,0 & 7,0 & 1,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

182,0	101,0	156,0	175,0	64,0	146,0	105,0	126,0	165,0	143,0	110,0	185,0	266,0
148,0	281,0	191,0	232,0	297,0	218,0	203,0	328,0	325,0	238,0	404,0	65,0	68,0
103,0	159,0	216,0	276,0	212,0	39,0	168,0	303,0	248,0	383,0	265,0	64,0	235,0
180,0	42,0	149,0	267,0	244,0	355,0	86,0	31,0	84,0	351,0	192,0	376,0	165,0
188,0	242,0	127,0	179,0	206,0	177,0	234,0	285,0	138,0	29,0	111,0	335,0	164,0
340,0	87,0	133,0	172,0	167,0	155,0	246,0	229,0	80,0	169,0	29,0	30,0	38,0
255,0	42,0	202,0	99,0	118,0	115,0	214,0	131,0	252,0	87,0	133,0	172,0	199,0
106,0	200,0	288,0	241,0	373,0	97,0	118,0	161,0	269,0	206,0	305,0		

Proyecto 016
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 8{,}0 & 9{,}0 \\ 4{,}0 & 2{,}0 & 4{,}0 \\ 8{,}0 & 8{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

410,0	202,0	305,0	243,0	106,0	237,0	269,0	150,0	209,0	383,0	198,0	281,0	231,0
102,0	129,0	141,0	54,0	114,0	260,0	146,0	206,0	346,0	194,0	313,0	383,0	198,0
281,0	231,0	118,0	186,0	193,0	118,0	190,0	286,0	94,0	271,0	455,0	194,0	416,0
372,0	164,0	315,0	388,0	202,0	289,0	433,0	194,0	313,0	257,0	142,0	239,0	420,0
166,0	273,0	329,0	106,0	260,0	470,0	206,0	353,0	310,0	162,0	244,0	470,0	206,0
353,0	350,0	158,0	419,0	244,0	130,0	169,0	287,0	174,0	272,0	256,0	138,0	226,0
222,0	98,0	126,0	287,0	174,0	272,0	256,0	138,0	226,0	326,0	138,0	182,0	248,0
152,0	275,0	195,0	110,0	159,0	78,0	46,0	99,0	404,0	226,0	311,0		

Proyecto 017
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

18

Matriz llave:

$$K = \begin{pmatrix} 7,0 & 2,0 & 3,0 \\ 7,0 & 4,0 & 6,0 \\ 3,0 & 6,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

143,0	202,0	137,0	218,0	247,0	164,0	203,0	266,0	213,0	88,0	155,0	134,0	232,0
275,0	206,0	122,0	153,0	96,0	144,0	253,0	234,0	94,0	139,0	152,0	137,0	148,0
83,0	209,0	320,0	299,0	95,0	155,0	123,0	120,0	205,0	210,0	244,0	355,0	314,0
174,0	285,0	284,0	26,0	45,0	40,0	196,0	259,0	234,0	176,0	247,0	198,0	249,0
309,0	205,0	218,0	282,0	186,0	212,0	284,0	204,0	143,0	202,0	137,0	240,0	291,0
174,0	177,0	228,0	187,0	64,0	107,0	134,0	143,0	195,0	139,0	231,0	322,0	225,0
190,0	247,0	176,0	174,0	201,0	140,0	112,0	196,0	192,0	275,0	361,0	267,0	126,0
147,0	88,0	244,0	355,0	282,0	217,0	322,0	247,0					

Proyecto 018
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 8{,}0 & 5{,}0 \\ 8{,}0 & 2{,}0 & 9{,}0 \\ 1{,}0 & 7{,}0 & 4{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

139,0	213,0	115,0	105,0	96,0	90,0	116,0	308,0	97,0	162,0	397,0	138,0	195,0
413,0	163,0	143,0	90,0	124,0	140,0	221,0	118,0	162,0	397,0	138,0	45,0	236,0
42,0	180,0	324,0	153,0	265,0	384,0	230,0	297,0	206,0	254,0	151,0	340,0	128,0
163,0	405,0	135,0	232,0	275,0	193,0	251,0	272,0	216,0	259,0	305,0	217,0	179,0
285,0	147,0	115,0	269,0	95,0	119,0	270,0	106,0	108,0	213,0	88,0	362,0	509,0
310,0	155,0	341,0	127,0	167,0	189,0	145,0	38,0	87,0	34,0	224,0	335,0	196,0
204,0	237,0	179,0	156,0	349,0	128,0	156,0	287,0	134,0	122,0	201,0	109,0	214,0
224,0	181,0	176,0	261,0	157,0	145,0	261,0	123,0	372,0	527,0	318,0		

Proyecto 019
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2,0 & 5,0 & 1,0 \\ 4,0 & 9,0 & 4,0 \\ 4,0 & 5,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

110,0	265,0	175,0	89,0	176,0	118,0	38,0	113,0	71,0	92,0	233,0	159,0	40,0
117,0	75,0	72,0	197,0	139,0	108,0	241,0	131,0	178,0	379,0	221,0	142,0	267,0
149,0	80,0	193,0	135,0	135,0	256,0	190,0	141,0	272,0	182,0	79,0	164,0	138,0
160,0	345,0	235,0	57,0	137,0	89,0	132,0	299,0	169,0	82,0	165,0	119,0	124,0
231,0	153,0	166,0	311,0	197,0	127,0	294,0	184,0	88,0	181,0	131,0	147,0	330,0
204,0	188,0	355,0	241,0	119,0	262,0	168,0	59,0	145,0	113,0	52,0	97,0	59,0
75,0	181,0	145,0	75,0	173,0	125,0	79,0	201,0	113,0	75,0	181,0	145,0	75,0
173,0	125,0	79,0	201,0	113,0	158,0	359,0	241,0					

Proyecto 020
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 3{,}0 & 4{,}0 \\ 1{,}0 & 9{,}0 & 1{,}0 \\ 1{,}0 & 7{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

195,0	48,0	154,0	230,0	50,0	128,0	258,0	69,0	123,0	152,0	77,0	101,0	108,0
249,0	215,0	259,0	277,0	303,0	308,0	284,0	310,0	63,0	114,0	110,0	218,0	209,0
229,0	241,0	172,0	144,0	237,0	54,0	160,0	217,0	82,0	148,0	229,0	145,0	209,0
197,0	194,0	266,0	221,0	83,0	153,0	270,0	213,0	283,0	122,0	152,0	178,0	247,0
190,0	158,0	283,0	175,0	201,0	82,0	127,0	137,0	157,0	151,0	203,0	286,0	283,0
329,0	237,0	72,0	100,0	178,0	55,0	85,0	184,0	133,0	145,0	209,0	50,0	156,0
173,0	164,0	152,0	141,0	30,0	40,0	164,0	158,0	184,0	288,0	159,0	193,0	91,0
61,0	99,0	286,0	283,0	329,0	350,0	191,0	277,0					

Proyecto 021
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 2{,}0 & 3{,}0 \\ 7{,}0 & 8{,}0 & 4{,}0 \\ 5{,}0 & 2{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

95,0	168,0	157,0	100,0	241,0	160,0	74,0	167,0	122,0	99,0	239,0	145,0	134,0
295,0	198,0	114,0	213,0	186,0	79,0	248,0	105,0	135,0	366,0	189,0	100,0	223,0
148,0	38,0	107,0	50,0	168,0	425,0	244,0	114,0	261,0	174,0	116,0	321,0	172,0
137,0	242,0	227,0	120,0	323,0	172,0	58,0	167,0	78,0	138,0	385,0	194,0	107,0
286,0	153,0	112,0	313,0	160,0	111,0	334,0	149,0	111,0	334,0	149,0	97,0	278,0
135,0	65,0	150,0	103,0	183,0	442,0	269,0	141,0	285,0	231,0	36,0	79,0	56,0
165,0	418,0	239,0	116,0	251,0	176,0	50,0	108,0	82,0	162,0	357,0	246,0	42,0
113,0	58,0	75,0	158,0	121,0	122,0	267,0	178,0	117,0	216,0	183,0		

Proyecto 022
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

23

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 8{,}0 & 9{,}0 \\ 5{,}0 & 2{,}0 & 8{,}0 \\ 8{,}0 & 2{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

281,0	242,0	91,0	223,0	179,0	225,0	213,0	124,0	125,0	407,0	348,0	237,0	385,0
269,0	95,0	62,0	49,0	30,0	339,0	163,0	75,0	328,0	189,0	66,0	505,0	313,0
151,0	501,0	299,0	269,0	185,0	138,0	157,0	345,0	164,0	171,0	327,0	148,0	169,0
47,0	21,0	17,0	383,0	219,0	265,0	313,0	175,0	79,0	477,0	280,0	215,0	409,0
331,0	205,0	140,0	113,0	156,0	425,0	279,0	105,0	235,0	182,0	61,0	144,0	81,0
48,0	278,0	236,0	164,0	321,0	261,0	237,0	444,0	252,0	182,0	111,0	83,0	23,0
169,0	77,0	71,0	305,0	263,0	101,0	165,0	85,0	39,0	315,0	183,0	165,0	467,0
342,0	213,0	234,0	160,0	80,0	543,0	397,0	275,0					

Proyecto 023
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

24

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 8{,}0 & 1{,}0 \\ 8{,}0 & 7{,}0 & 5{,}0 \\ 6{,}0 & 8{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

128,0	259,0	153,0	137,0	199,0	152,0	48,0	186,0	123,0	90,0	192,0	155,0	189,0
327,0	259,0	86,0	346,0	221,0	124,0	305,0	259,0	209,0	433,0	344,0	34,0	98,0
79,0	63,0	297,0	198,0	182,0	187,0	187,0	184,0	440,0	319,0	222,0	234,0	247,0
151,0	167,0	161,0	152,0	412,0	287,0	68,0	85,0	83,0	251,0	421,0	346,0	79,0
293,0	184,0	47,0	262,0	147,0	72,0	342,0	207,0	117,0	126,0	122,0	247,0	389,0
322,0	29,0	166,0	119,0	95,0	238,0	195,0	180,0	276,0	185,0	15,0	51,0	30,0
221,0	217,0	226,0	44,0	214,0	89,0	148,0	257,0	223,0	29,0	166,0	119,0	143,0
247,0	188,0	68,0	289,0	203,0	256,0	536,0	391,0					

Proyecto 024
Nombre del alumno: _____

Matrícula: _____　　　　**Grupo:** _____　**Fecha de entrega:** _____

25

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 5{,}0 & 6{,}0 \\ 8{,}0 & 3{,}0 & 3{,}0 \\ 7{,}0 & 5{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

340,0	260,0	232,0	201,0	162,0	173,0	245,0	204,0	169,0	327,0	256,0	219,0	167,0
104,0	91,0	102,0	69,0	78,0	239,0	201,0	167,0	328,0	288,0	252,0	327,0	256,0
219,0	200,0	161,0	144,0	198,0	185,0	158,0	200,0	136,0	180,0	364,0	281,0	300,0
297,0	225,0	229,0	334,0	264,0	226,0	335,0	238,0	227,0	243,0	214,0	191,0	292,0
178,0	184,0	214,0	125,0	166,0	362,0	258,0	254,0	271,0	219,0	191,0	362,0	258,0
254,0	316,0	284,0	312,0	210,0	164,0	134,0	290,0	267,0	226,0	235,0	201,0	179,0
161,0	101,0	89,0	290,0	267,0	226,0	235,0	201,0	179,0	229,0	137,0	125,0	225,0
237,0	221,0	272,0	224,0	196,0	368,0	306,0	252,0					

Proyecto 025
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 2{,}0 & 5{,}0 \\ 8{,}0 & 7{,}0 & 5{,}0 \\ 1{,}0 & 7{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

106,0	143,0	77,0	105,0	138,0	57,0	46,0	59,0	23,0	203,0	308,0	219,0	99,0
132,0	78,0	228,0	353,0	208,0	205,0	246,0	82,0	265,0	330,0	136,0	169,0	308,0
179,0	232,0	311,0	98,0	243,0	312,0	93,0	129,0	232,0	128,0	125,0	208,0	127,0
158,0	238,0	163,0	169,0	334,0	219,0	228,0	401,0	244,0	125,0	262,0	229,0	125,0
185,0	120,0	177,0	348,0	216,0	184,0	213,0	85,0	164,0	309,0	242,0	47,0	139,0
130,0	258,0	327,0	102,0	61,0	86,0	41,0	242,0	413,0	255,0	153,0	264,0	132,0
143,0	248,0	183,0	213,0	282,0	75,0	73,0	153,0	112,0	151,0	174,0	73,0	245,0
319,0	100,0	98,0	129,0	80,0	265,0	330,0	136,0	283,0	368,0	170,0		

Proyecto 026
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 7,0 & 6,0 \\ 2,0 & 7,0 & 5,0 \\ 5,0 & 4,0 & 7,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

169,0	126,0	197,0	205,0	150,0	194,0	260,0	211,0	235,0	161,0	136,0	168,0	254,0
199,0	222,0	120,0	85,0	136,0	280,0	243,0	270,0	181,0	166,0	126,0	106,0	69,0
113,0	359,0	312,0	311,0	149,0	121,0	163,0	250,0	225,0	210,0	379,0	322,0	336,0
339,0	302,0	286,0	48,0	41,0	48,0	283,0	242,0	224,0	241,0	196,0	232,0	255,0
187,0	269,0	231,0	169,0	256,0	251,0	193,0	262,0	169,0	126,0	197,0	219,0	150,0
252,0	228,0	187,0	197,0	158,0	151,0	102,0	171,0	131,0	183,0	277,0	210,0	309,0
105,0	94,0	86,0	131,0	94,0	145,0	299,0	270,0	270,0	139,0	128,0	101,0	238,0
208,0	221,0	317,0	289,0	259,0	210,0	173,0	230,0	301,0	240,0	319,0		

Proyecto 027
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

28

Matriz llave:

$$K = \begin{pmatrix} 6,0 & 1,0 & 6,0 \\ 1,0 & 2,0 & 4,0 \\ 6,0 & 1,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

143,0	90,0	67,0	63,0	45,0	39,0	217,0	92,0	145,0	281,0	113,0	205,0	287,0
138,0	179,0	57,0	49,0	41,0	151,0	83,0	91,0	281,0	113,0	205,0	175,0	37,0
167,0	225,0	108,0	153,0	267,0	125,0	211,0	129,0	119,0	65,0	239,0	103,0	167,0
283,0	130,0	175,0	180,0	133,0	72,0	183,0	111,0	127,0	201,0	142,0	93,0	191,0
122,0	83,0	187,0	90,0	111,0	195,0	61,0	179,0	145,0	83,0	69,0	349,0	185,0
241,0	235,0	122,0	127,0	129,0	70,0	101,0	63,0	19,0	59,0	259,0	93,0	195,0
197,0	84,0	141,0	189,0	126,0	85,0	273,0	121,0	209,0	54,0	45,0	50,0	117,0
81,0	57,0	117,0	72,0	113,0	220,0	71,0	184,0	361,0	193,0	245,0		

Proyecto 028
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 1{,}0 & 4{,}0 \\ 8{,}0 & 1{,}0 & 6{,}0 \\ 3{,}0 & 5{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

212,0	323,0	291,0	92,0	138,0	131,0	112,0	171,0	159,0	213,0	327,0	274,0	117,0
179,0	162,0	209,0	323,0	254,0	106,0	151,0	235,0	172,0	249,0	337,0	52,0	65,0
173,0	171,0	263,0	212,0	155,0	238,0	168,0	130,0	194,0	189,0	159,0	250,0	136,0
236,0	359,0	313,0	106,0	161,0	150,0	152,0	221,0	299,0	109,0	167,0	128,0	93,0
137,0	144,0	109,0	157,0	198,0	197,0	296,0	304,0	127,0	195,0	148,0	201,0	300,0
324,0	164,0	245,0	231,0	165,0	248,0	248,0	157,0	245,0	163,0	28,0	39,0	61,0
190,0	289,0	239,0	134,0	197,0	228,0	69,0	102,0	128,0	181,0	267,0	301,0	117,0
181,0	139,0	202,0	297,0	355,0	266,0	405,0	359,0					

Proyecto 029
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 6{,}0 & 9{,}0 \\ 9{,}0 & 1{,}0 & 2{,}0 \\ 8{,}0 & 5{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

357,0	163,0	290,0	375,0	230,0	313,0	396,0	276,0	336,0	243,0	150,0	205,0	216,0
46,0	178,0	468,0	193,0	387,0	531,0	256,0	443,0	126,0	31,0	103,0	381,0	176,0
317,0	348,0	261,0	303,0	411,0	217,0	338,0	363,0	205,0	302,0	405,0	191,0	334,0
396,0	117,0	319,0	372,0	207,0	309,0	492,0	208,0	404,0	243,0	70,0	197,0	360,0
263,0	313,0	450,0	277,0	381,0	168,0	40,0	136,0	309,0	99,0	250,0	522,0	212,0
430,0	348,0	265,0	299,0	270,0	192,0	230,0	297,0	174,0	251,0	375,0	181,0	306,0
144,0	35,0	117,0	324,0	171,0	273,0	501,0	247,0	414,0	396,0	218,0	330,0	327,0
211,0	276,0	333,0	72,0	269,0	330,0	107,0	263,0					

Proyecto 030
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

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Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 9{,}0 & 2{,}0 \\ 4{,}0 & 5{,}0 & 5{,}0 \\ 4{,}0 & 8{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

230,0	256,0	364,0	279,0	194,0	272,0	103,0	136,0	208,0	181,0	153,0	180,0	140,0
136,0	172,0	194,0	119,0	176,0	343,0	232,0	328,0	305,0	251,0	356,0	321,0	293,0
404,0	71,0	65,0	92,0	348,0	236,0	332,0	160,0	176,0	248,0	191,0	190,0	292,0
221,0	229,0	364,0	206,0	122,0	188,0	255,0	238,0	352,0	126,0	151,0	220,0	181,0
153,0	180,0	116,0	111,0	132,0	234,0	246,0	372,0	114,0	157,0	220,0	144,0	90,0
132,0	187,0	140,0	176,0	324,0	210,0	300,0	255,0	265,0	388,0	48,0	77,0	116,0
128,0	192,0	276,0	161,0	106,0	160,0	191,0	190,0	292,0	306,0	250,0	388,0	256,0
231,0	348,0	144,0	90,0	132,0	328,0	328,0	460,0					

Proyecto 031
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 3{,}0 & 1{,}0 \\ 9{,}0 & 6{,}0 & 7{,}0 \\ 5{,}0 & 4{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

106,0	247,0	235,0	207,0	294,0	182,0	153,0	216,0	136,0	122,0	269,0	231,0	119,0
348,0	344,0	135,0	300,0	276,0	145,0	235,0	149,0	192,0	379,0	295,0	96,0	262,0
252,0	42,0	104,0	90,0	233,0	466,0	374,0	156,0	312,0	258,0	238,0	346,0	208,0
156,0	357,0	337,0	191,0	342,0	250,0	82,0	164,0	126,0	223,0	396,0	284,0	164,0
303,0	227,0	198,0	326,0	220,0	184,0	323,0	223,0	184,0	323,0	223,0	163,0	281,0
195,0	115,0	185,0	131,0	232,0	499,0	423,0	216,0	387,0	309,0	49,0	98,0	82,0
223,0	436,0	342,0	174,0	273,0	177,0	107,0	264,0	236,0	255,0	465,0	361,0	119,0
188,0	132,0	205,0	450,0	398,0	149,0	223,0	137,0	172,0	419,0	391,0		

Proyecto 032
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6,0 & 4,0 & 6,0 \\ 2,0 & 9,0 & 8,0 \\ 5,0 & 6,0 & 6,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

202,0	225,0	196,0	200,0	112,0	177,0	150,0	172,0	162,0	322,0	277,0	298,0	248,0
352,0	271,0	46,0	47,0	45,0	192,0	349,0	245,0	194,0	326,0	233,0	320,0	468,0
363,0	348,0	413,0	377,0	154,0	112,0	144,0	222,0	311,0	262,0	210,0	295,0	250,0
28,0	46,0	35,0	280,0	292,0	297,0	188,0	306,0	225,0	318,0	415,0	354,0	308,0
303,0	297,0	130,0	63,0	113,0	268,0	397,0	301,0	158,0	205,0	164,0	90,0	135,0
105,0	220,0	189,0	204,0	264,0	201,0	243,0	288,0	399,0	328,0	72,0	101,0	77,0
104,0	160,0	127,0	220,0	243,0	213,0	144,0	201,0	158,0	112,0	191,0	137,0	184,0
231,0	183,0	154,0	173,0	150,0	280,0	413,0	313,0					

Proyecto 033
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 1{,}0 & 9{,}0 \\ 4{,}0 & 9{,}0 & 6{,}0 \\ 7{,}0 & 5{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

260,0	290,0	122,0	144,0	231,0	110,0	99,0	141,0	129,0	67,0	163,0	141,0	169,0
326,0	213,0	203,0	267,0	233,0	48,0	222,0	250,0	174,0	381,0	308,0	21,0	69,0
79,0	138,0	207,0	216,0	68,0	232,0	122,0	233,0	387,0	295,0	41,0	269,0	171,0
65,0	200,0	109,0	229,0	351,0	275,0	20,0	90,0	62,0	190,0	415,0	284,0	188,0
237,0	190,0	192,0	203,0	164,0	219,0	261,0	225,0	51,0	154,0	81,0	186,0	399,0
256,0	46,0	99,0	134,0	56,0	179,0	188,0	263,0	337,0	129,0	40,0	45,0	30,0
64,0	271,0	146,0	253,0	207,0	95,0	46,0	169,0	106,0	199,0	266,0	125,0	158,0
347,0	184,0	154,0	186,0	140,0	289,0	291,0	223,0					

Proyecto 034
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 6{,}0 & 9{,}0 \\ 4{,}0 & 2{,}0 & 1{,}0 \\ 4{,}0 & 5{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

449,0	121,0	364,0	249,0	85,0	186,0	321,0	93,0	248,0	433,0	117,0	348,0	233,0
45,0	212,0	132,0	36,0	111,0	312,0	92,0	239,0	417,0	137,0	304,0	433,0	117,0
348,0	260,0	76,0	203,0	248,0	88,0	171,0	247,0	79,0	200,0	458,0	146,0	355,0
381,0	113,0	303,0	441,0	121,0	352,0	445,0	113,0	374,0	307,0	103,0	222,0	397,0
85,0	358,0	278,0	70,0	247,0	477,0	125,0	398,0	354,0	102,0	277,0	477,0	125,0
398,0	371,0	155,0	244,0	281,0	73,0	228,0	366,0	126,0	257,0	300,0	96,0	223,0
224,0	44,0	203,0	366,0	126,0	257,0	300,0	96,0	223,0	320,0	60,0	295,0	474,0
158,0	350,0	183,0	71,0	120,0	485,0	133,0	394,0	475,0	127,0	386,0		

Proyecto 035
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 9{,}0 & 7{,}0 \\ 4{,}0 & 9{,}0 & 3{,}0 \\ 5{,}0 & 2{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

135,0	105,0	136,0	99,0	90,0	123,0	41,0	37,0	54,0	365,0	272,0	279,0	140,0
100,0	134,0	326,0	291,0	273,0	160,0	138,0	244,0	254,0	206,0	326,0	241,0	272,0
167,0	156,0	189,0	241,0	159,0	180,0	261,0	170,0	200,0	124,0	189,0	180,0	143,0
271,0	206,0	213,0	293,0	318,0	169,0	346,0	355,0	245,0	335,0	286,0	163,0	200,0
155,0	165,0	282,0	324,0	168,0	175,0	123,0	238,0	360,0	311,0	207,0	170,0	169,0
49,0	180,0	189,0	285,0	67,0	62,0	71,0	373,0	363,0	272,0	174,0	216,0	144,0
281,0	236,0	183,0	117,0	162,0	213,0	152,0	155,0	77,0	151,0	102,0	199,0	196,0
273,0	179,0	182,0	164,0	204,0	455,0	420,0	417,0					

Proyecto 036
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 5{,}0 & 8{,}0 \\ 9{,}0 & 5{,}0 & 2{,}0 \\ 8{,}0 & 2{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

253,0	151,0	269,0	289,0	310,0	251,0	322,0	288,0	277,0	201,0	90,0	205,0	324,0
345,0	265,0	186,0	145,0	189,0	326,0	169,0	311,0	169,0	170,0	107,0	172,0	184,0
161,0	399,0	299,0	337,0	199,0	96,0	208,0	260,0	175,0	215,0	439,0	344,0	377,0
359,0	254,0	297,0	58,0	29,0	57,0	311,0	312,0	233,0	305,0	230,0	281,0	373,0
316,0	360,0	345,0	259,0	348,0	349,0	261,0	340,0	253,0	151,0	269,0	351,0	288,0
357,0	274,0	262,0	225,0	132,0	129,0	73,0	241,0	170,0	240,0	401,0	259,0	413,0
131,0	117,0	89,0	270,0	155,0	248,0	327,0	218,0	265,0	305,0	188,0	287,0	133,0
121,0	134,0	426,0	279,0	399,0	437,0	283,0	439,0					

Proyecto 037
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 9{,}0 & 3{,}0 \\ 7{,}0 & 4{,}0 & 3{,}0 \\ 4{,}0 & 8{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

138,0	105,0	170,0	126,0	75,0	120,0	225,0	184,0	188,0	345,0	266,0	262,0	306,0
241,0	282,0	174,0	93,0	156,0	189,0	136,0	182,0	345,0	266,0	262,0	258,0	199,0
128,0	297,0	216,0	252,0	474,0	315,0	360,0	300,0	163,0	316,0	288,0	221,0	232,0
270,0	225,0	250,0	198,0	136,0	262,0	348,0	217,0	304,0	252,0	169,0	298,0	162,0
129,0	218,0	174,0	145,0	170,0	336,0	237,0	204,0	111,0	96,0	142,0	549,0	370,0
470,0	198,0	169,0	218,0	264,0	165,0	210,0	111,0	78,0	66,0	306,0	232,0	194,0
174,0	141,0	142,0	111,0	78,0	66,0	288,0	229,0	188,0	252,0	163,0	256,0	300,0
182,0	274,0	441,0	276,0	402,0	276,0	174,0	338,0					

Proyecto 038
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 1{,}0 & 7{,}0 \\ 8{,}0 & 5{,}0 & 3{,}0 \\ 4{,}0 & 8{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

217,0	278,0	391,0	59,0	171,0	189,0	141,0	118,0	207,0	214,0	266,0	363,0	142,0
126,0	211,0	210,0	246,0	331,0	165,0	156,0	329,0	211,0	282,0	477,0	63,0	158,0
265,0	156,0	226,0	283,0	50,0	299,0	245,0	73,0	259,0	277,0	66,0	251,0	185,0
191,0	364,0	433,0	112,0	139,0	202,0	213,0	216,0	415,0	60,0	188,0	181,0	40,0
210,0	217,0	62,0	256,0	299,0	218,0	271,0	415,0	76,0	210,0	207,0	222,0	291,0
447,0	73,0	344,0	343,0	162,0	247,0	343,0	119,0	207,0	214,0	19,0	72,0	93,0
109,0	338,0	341,0	118,0	245,0	328,0	110,0	73,0	171,0	52,0	282,0	297,0	124,0
176,0	239,0	167,0	249,0	324,0	231,0	266,0	433,0					

Proyecto 039
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

40

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 7{,}0 & 3{,}0 \\ 5{,}0 & 8{,}0 & 3{,}0 \\ 1{,}0 & 5{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

160,0	149,0	206,0	193,0	173,0	166,0	228,0	204,0	147,0	153,0	145,0	107,0	210,0
236,0	171,0	333,0	346,0	289,0	375,0	381,0	296,0	105,0	116,0	96,0	269,0	275,0
219,0	277,0	266,0	114,0	196,0	179,0	212,0	200,0	187,0	176,0	240,0	237,0	229,0
237,0	250,0	284,0	203,0	190,0	183,0	304,0	308,0	299,0	165,0	177,0	176,0	291,0
282,0	124,0	303,0	292,0	199,0	124,0	136,0	129,0	188,0	197,0	215,0	354,0	366,0
325,0	217,0	194,0	110,0	162,0	146,0	97,0	207,0	203,0	139,0	172,0	159,0	208,0
96,0	102,0	83,0	132,0	121,0	92,0	220,0	238,0	285,0	172,0	187,0	207,0	140,0
149,0	103,0	255,0	277,0	224,0	226,0	218,0	253,0					

Proyecto 040
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

41

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 5,0 & 9,0 \\ 9,0 & 8,0 & 9,0 \\ 4,0 & 7,0 & 7,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

364,0	486,0	328,0	214,0	357,0	246,0	212,0	247,0	184,0	173,0	320,0	171,0	172,0
276,0	160,0	123,0	207,0	157,0	252,0	423,0	296,0	311,0	466,0	321,0	377,0	560,0
367,0	85,0	122,0	83,0	256,0	432,0	300,0	248,0	336,0	224,0	270,0	337,0	258,0
337,0	396,0	319,0	126,0	204,0	166,0	322,0	433,0	314,0	223,0	283,0	197,0	173,0
320,0	171,0	135,0	233,0	125,0	354,0	444,0	330,0	237,0	305,0	199,0	94,0	158,0
118,0	152,0	279,0	164,0	222,0	378,0	270,0	373,0	490,0	347,0	125,0	143,0	103,0
300,0	368,0	248,0	102,0	144,0	110,0	152,0	231,0	140,0	342,0	404,0	326,0	246,0
299,0	242,0	126,0	193,0	146,0	290,0	396,0	314,0	494,0	704,0	486,0		

Proyecto 041
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

42

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 4{,}0 & 7{,}0 \\ 8{,}0 & 5{,}0 & 6{,}0 \\ 6{,}0 & 7{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

173,0	215,0	155,0	122,0	259,0	209,0	88,0	191,0	145,0	185,0	231,0	215,0	280,0
297,0	271,0	204,0	261,0	195,0	123,0	202,0	216,0	241,0	325,0	325,0	204,0	224,0
204,0	78,0	88,0	96,0	298,0	401,0	379,0	198,0	270,0	234,0	152,0	302,0	278,0
247,0	311,0	223,0	198,0	295,0	285,0	106,0	140,0	148,0	228,0	341,0	339,0	181,0
261,0	253,0	172,0	282,0	274,0	185,0	277,0	293,0	185,0	277,0	293,0	157,0	242,0
244,0	93,0	162,0	132,0	337,0	429,0	397,0	219,0	339,0	255,0	62,0	85,0	71,0
295,0	393,0	373,0	226,0	263,0	229,0	68,0	125,0	95,0	306,0	372,0	324,0	226,0
311,0	253,0	171,0	263,0	207,0	118,0	149,0	199,0	288,0	395,0	285,0		

Proyecto 042
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

43

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 3,0 & 5,0 \\ 7,0 & 1,0 & 2,0 \\ 3,0 & 7,0 & 8,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

160,0	107,0	231,0	139,0	201,0	135,0	109,0	106,0	160,0	242,0	237,0	301,0	197,0
103,0	329,0	35,0	30,0	48,0	150,0	60,0	296,0	154,0	63,0	287,0	249,0	143,0
425,0	256,0	232,0	384,0	109,0	140,0	122,0	162,0	135,0	271,0	152,0	131,0	255,0
21,0	13,0	39,0	199,0	221,0	275,0	147,0	71,0	269,0	238,0	187,0	379,0	234,0
206,0	314,0	89,0	138,0	80,0	212,0	108,0	364,0	126,0	71,0	199,0	69,0	42,0
120,0	165,0	163,0	205,0	192,0	222,0	222,0	217,0	157,0	359,0	58,0	28,0	96,0
77,0	55,0	137,0	174,0	118,0	250,0	168,0	168,0	224,0	125,0	161,0	155,0	151,0
79,0	261,0	201,0	223,0	265,0	298,0	262,0	418,0					

Proyecto 043
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 6{,}0 & 2{,}0 \\ 9{,}0 & 4{,}0 & 6{,}0 \\ 2{,}0 & 6{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

171,0	255,0	109,0	145,0	171,0	110,0	171,0	201,0	57,0	181,0	183,0	85,0	276,0
296,0	163,0	311,0	377,0	103,0	317,0	297,0	127,0	397,0	411,0	194,0	101,0	99,0
37,0	285,0	327,0	84,0	151,0	127,0	139,0	387,0	437,0	177,0	209,0	159,0	173,0
136,0	120,0	117,0	363,0	421,0	153,0	77,0	65,0	55,0	365,0	375,0	216,0	255,0
317,0	90,0	224,0	298,0	65,0	303,0	381,0	93,0	101,0	89,0	90,0	329,0	339,0
208,0	174,0	184,0	45,0	240,0	234,0	97,0	177,0	247,0	143,0	41,0	55,0	16,0
179,0	141,0	168,0	141,0	247,0	51,0	141,0	181,0	116,0	137,0	125,0	98,0	219,0
189,0	178,0	219,0	299,0	129,0	148,0	246,0	91,0					

Proyecto 044
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

45

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 3{,}0 & 5{,}0 \\ 8{,}0 & 1{,}0 & 6{,}0 \\ 6{,}0 & 8{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

333,0	323,0	402,0	188,0	153,0	248,0	260,0	259,0	268,0	330,0	327,0	376,0	146,0
151,0	216,0	84,0	69,0	138,0	255,0	253,0	260,0	353,0	335,0	354,0	330,0	327,0
376,0	202,0	193,0	230,0	224,0	213,0	202,0	151,0	97,0	286,0	332,0	275,0	458,0
274,0	240,0	370,0	339,0	335,0	382,0	306,0	289,0	420,0	260,0	243,0	264,0	237,0
221,0	398,0	150,0	107,0	318,0	327,0	301,0	458,0	277,0	269,0	308,0	327,0	301,0
458,0	311,0	233,0	374,0	215,0	219,0	238,0	326,0	313,0	298,0	247,0	233,0	260,0
141,0	145,0	208,0	326,0	313,0	298,0	247,0	233,0	260,0	193,0	197,0	304,0	345,0
289,0	386,0	306,0	276,0	282,0	332,0	289,0	500,0	433,0	405,0	514,0		

Proyecto 045
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 9{,}0 & 1{,}0 \\ 6{,}0 & 3{,}0 & 7{,}0 \\ 1{,}0 & 5{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

93,0	135,0	139,0	90,0	126,0	105,0	37,0	55,0	45,0	228,0	276,0	343,0	82,0
130,0	146,0	281,0	287,0	290,0	136,0	244,0	194,0	192,0	324,0	288,0	296,0	200,0
167,0	219,0	261,0	160,0	204,0	276,0	177,0	222,0	150,0	116,0	180,0	156,0	155,0
176,0	212,0	255,0	338,0	206,0	195,0	369,0	279,0	262,0	262,0	178,0	253,0	135,0
165,0	190,0	354,0	210,0	180,0	103,0	229,0	215,0	289,0	223,0	284,0	169,0	67,0
100,0	207,0	297,0	204,0	62,0	74,0	65,0	355,0	217,0	189,0	122,0	134,0	75,0
269,0	179,0	159,0	313,0	319,0	246,0	193,0	91,0	104,0	114,0	150,0	183,0	331,0
193,0	185,0	122,0	134,0	75,0	269,0	179,0	159,0	326,0	410,0	363,0		

Proyecto 046
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 8{,}0 & 8{,}0 \\ 3{,}0 & 6{,}0 & 3{,}0 \\ 9{,}0 & 1{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

208,0	99,0	280,0	220,0	162,0	265,0	296,0	195,0	279,0	204,0	96,0	203,0	276,0
204,0	272,0	140,0	78,0	200,0	348,0	180,0	302,0	204,0	150,0	93,0	112,0	81,0
175,0	424,0	261,0	324,0	188,0	87,0	210,0	300,0	180,0	200,0	444,0	276,0	369,0
404,0	246,0	279,0	60,0	30,0	56,0	316,0	228,0	225,0	284,0	168,0	283,0	292,0
177,0	378,0	272,0	150,0	365,0	296,0	168,0	351,0	208,0	99,0	280,0	252,0	144,0
381,0	256,0	177,0	225,0	180,0	132,0	56,0	204,0	111,0	248,0	336,0	171,0	428,0
228,0	156,0	196,0	104,0	69,0	190,0	268,0	159,0	222,0	356,0	219,0	402,0	172,0
126,0	72,0	204,0	108,0	171,0	320,0	222,0	207,0	380,0	198,0	356,0		

Proyecto 047
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

48

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 3{,}0 & 6{,}0 \\ 9{,}0 & 9{,}0 & 6{,}0 \\ 9{,}0 & 1{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

161,0	195,0	193,0	87,0	144,0	84,0	255,0	279,0	307,0	345,0	402,0	400,0	337,0
387,0	401,0	93,0	186,0	74,0	183,0	234,0	208,0	345,0	402,0	400,0	231,0	264,0
260,0	279,0	351,0	315,0	363,0	516,0	376,0	185,0	348,0	164,0	291,0	342,0	338,0
325,0	351,0	397,0	206,0	279,0	237,0	251,0	390,0	250,0	239,0	333,0	267,0	209,0
243,0	257,0	213,0	231,0	261,0	267,0	348,0	284,0	157,0	168,0	198,0	453,0	630,0
484,0	261,0	279,0	325,0	183,0	285,0	179,0	87,0	114,0	92,0	282,0	333,0	319,0
193,0	213,0	231,0	87,0	114,0	92,0	291,0	324,0	340,0	209,0	306,0	222,0	210,0
339,0	205,0	207,0	384,0	170,0	435,0	552,0	490,0					

Proyecto 048
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

49

Matriz llave:

$$K = \begin{pmatrix} 2,0 & 5,0 & 4,0 \\ 6,0 & 1,0 & 8,0 \\ 2,0 & 1,0 & 2,0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

191,0	339,0	101,0	104,0	124,0	46,0	95,0	195,0	53,0	173,0	341,0	99,0	97,0
201,0	55,0	153,0	337,0	95,0	171,0	191,0	61,0	253,0	281,0	95,0	157,0	73,0
39,0	137,0	265,0	79,0	138,0	186,0	72,0	156,0	168,0	66,0	94,0	206,0	68,0
223,0	347,0	113,0	99,0	171,0	51,0	213,0	265,0	83,0	97,0	145,0	51,0	127,0
111,0	49,0	175,0	135,0	61,0	208,0	320,0	98,0	109,0	173,0	59,0	228,0	324,0
102,0	197,0	201,0	83,0	176,0	256,0	82,0	101,0	233,0	69,0	55,0	35,0	17,0
193,0	305,0	101,0	104,0	56,0	30,0	111,0	147,0	45,0	223,0	231,0	85,0	129,0
245,0	73,0	53,0	81,0	23,0	216,0	336,0	102,0					

Proyecto 049
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

50

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 8{,}0 & 1{,}0 \\ 2{,}0 & 8{,}0 & 5{,}0 \\ 1{,}0 & 8{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

131,0	167,0	236,0	196,0	150,0	189,0	255,0	153,0	171,0	169,0	121,0	134,0	229,0
243,0	257,0	348,0	344,0	390,0	404,0	358,0	397,0	109,0	123,0	137,0	287,0	263,0
294,0	345,0	187,0	163,0	179,0	179,0	242,0	203,0	171,0	210,0	238,0	236,0	287,0
211,0	289,0	365,0	204,0	176,0	218,0	299,0	317,0	383,0	158,0	196,0	235,0	361,0
203,0	179,0	342,0	242,0	258,0	121,0	151,0	177,0	172,0	222,0	277,0	361,0	371,0
431,0	257,0	131,0	131,0	185,0	107,0	115,0	233,0	173,0	184,0	147,0	171,0	238,0
155,0	143,0	148,0	172,0	222,0	277,0	257,0	231,0	229,0	167,0	155,0	188,0	236,0
208,0	250,0	251,0	281,0	349,0	75,0	115,0	166,0	221,0	307,0	389,0		

Proyecto 050
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

51

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 2{,}0 & 5{,}0 \\ 9{,}0 & 9{,}0 & 9{,}0 \\ 3{,}0 & 3{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

267,0	495,0	327,0	163,0	378,0	156,0	129,0	252,0	198,0	195,0	324,0	138,0	165,0
279,0	147,0	77,0	225,0	81,0	187,0	450,0	180,0	229,0	486,0	252,0	299,0	576,0
318,0	63,0	126,0	72,0	193,0	459,0	183,0	186,0	342,0	222,0	158,0	351,0	237,0
177,0	414,0	300,0	65,0	225,0	81,0	211,0	450,0	276,0	154,0	288,0	204,0	195,0
324,0	138,0	146,0	234,0	114,0	219,0	459,0	315,0	180,0	306,0	222,0	61,0	171,0
63,0	153,0	288,0	114,0	159,0	405,0	153,0	253,0	504,0	330,0	80,0	144,0	120,0
215,0	369,0	285,0	147,0	324,0	138,0	125,0	198,0	84,0	154,0	342,0	198,0	203,0
414,0	144,0	173,0	324,0	198,0	357,0	729,0	417,0					

Proyecto 051
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

52

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 5{,}0 & 9{,}0 \\ 6{,}0 & 9{,}0 & 8{,}0 \\ 4{,}0 & 9{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

272,0	233,0	190,0	268,0	231,0	174,0	200,0	159,0	114,0	273,0	301,0	269,0	378,0
417,0	380,0	324,0	285,0	234,0	205,0	260,0	235,0	364,0	431,0	390,0	281,0	308,0
279,0	103,0	136,0	129,0	458,0	509,0	452,0	315,0	318,0	273,0	305,0	314,0	259,0
392,0	333,0	270,0	322,0	363,0	320,0	155,0	196,0	181,0	368,0	429,0	382,0	288,0
327,0	290,0	297,0	334,0	291,0	292,0	367,0	334,0	292,0	367,0	334,0	257,0	304,0
271,0	177,0	160,0	127,0	504,0	551,0	490,0	393,0	333,0	261,0	100,0	97,0	82,0
288,0	359,0	322,0	266,0	255,0	216,0	369,0	349,0	293,0	248,0	329,0	302,0	263,0
298,0	261,0	177,0	160,0	127,0	482,0	403,0	320,0					

Proyecto 052
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

53

Matriz llave:

$$K = \begin{pmatrix} 6,0 & 6,0 & 4,0 \\ 9,0 & 3,0 & 3,0 \\ 8,0 & 6,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

154,0	150,0	120,0	194,0	264,0	238,0	164,0	159,0	178,0	270,0	318,0	268,0	222,0
168,0	178,0	40,0	42,0	38,0	220,0	129,0	196,0	198,0	123,0	164,0	318,0	240,0
282,0	372,0	351,0	392,0	152,0	189,0	178,0	266,0	222,0	284,0	258,0	216,0	280,0
34,0	24,0	34,0	314,0	324,0	358,0	198,0	132,0	174,0	338,0	294,0	340,0	264,0
285,0	252,0	128,0	180,0	162,0	252,0	183,0	208,0	130,0	108,0	100,0	96,0	72,0
90,0	186,0	219,0	186,0	240,0	297,0	264,0	310,0	255,0	306,0	60,0	45,0	44,0
126,0	96,0	130,0	168,0	165,0	132,0	174,0	111,0	140,0	130,0	99,0	132,0	196,0
129,0	204,0	224,0	213,0	246,0	128,0	153,0	146,0	428,0	405,0	424,0		

Proyecto 053
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

54

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 1{,}0 & 7{,}0 \\ 3{,}0 & 4{,}0 & 4{,}0 \\ 4{,}0 & 3{,}0 & 4{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

211,0	171,0	164,0	119,0	125,0	113,0	96,0	93,0	105,0	70,0	95,0	99,0	153,0
182,0	176,0	192,0	177,0	199,0	73,0	133,0	148,0	173,0	221,0	227,0	28,0	43,0
49,0	141,0	141,0	165,0	59,0	111,0	90,0	218,0	233,0	243,0	44,0	127,0	105,0
57,0	98,0	82,0	214,0	217,0	231,0	21,0	45,0	40,0	177,0	229,0	221,0	173,0
155,0	171,0	174,0	140,0	159,0	204,0	177,0	201,0	44,0	75,0	62,0	169,0	217,0
205,0	58,0	70,0	87,0	70,0	108,0	119,0	210,0	187,0	169,0	35,0	29,0	31,0
57,0	127,0	101,0	208,0	139,0	147,0	115,0	104,0	99,0	78,0	91,0	79,0	196,0
121,0	123,0	88,0	124,0	121,0	282,0	297,0	299,0					

Proyecto 054
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

55

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 6{,}0 & 8{,}0 \\ 3{,}0 & 9{,}0 & 5{,}0 \\ 7{,}0 & 5{,}0 & 6{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

174,0	123,0	139,0	162,0	99,0	132,0	70,0	41,0	57,0	370,0	321,0	292,0	166,0
122,0	131,0	394,0	316,0	320,0	302,0	158,0	245,0	406,0	240,0	327,0	302,0	265,0
254,0	342,0	186,0	286,0	354,0	183,0	294,0	226,0	192,0	191,0	222,0	189,0	182,0
284,0	241,0	225,0	322,0	313,0	270,0	410,0	360,0	340,0	274,0	311,0	220,0	220,0
180,0	175,0	330,0	312,0	279,0	278,0	155,0	221,0	330,0	338,0	266,0	124,0	170,0
103,0	378,0	198,0	312,0	98,0	67,0	80,0	330,0	312,0	279,0	214,0	142,0	172,0
86,0	95,0	72,0	346,0	320,0	292,0	178,0	97,0	150,0	272,0	247,0	228,0	350,0
170,0	290,0	286,0	169,0	235,0	294,0	223,0	229,0	454,0	235,0	368,0		

Proyecto 055
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

56

Matriz llave:

$$K = \begin{pmatrix} 1,0 & 4,0 & 6,0 \\ 5,0 & 4,0 & 7,0 \\ 8,0 & 6,0 & 9,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

130,0	197,0	273,0	85,0	194,0	303,0	146,0	235,0	349,0	137,0	168,0	225,0	113,0
222,0	345,0	75,0	136,0	197,0	223,0	270,0	367,0	97,0	126,0	191,0	40,0	113,0
177,0	236,0	311,0	445,0	125,0	163,0	220,0	175,0	210,0	295,0	241,0	336,0	485,0
231,0	286,0	405,0	39,0	48,0	65,0	145,0	224,0	341,0	157,0	232,0	333,0	147,0
269,0	396,0	150,0	256,0	368,0	164,0	262,0	376,0	130,0	197,0	273,0	129,0	252,0
369,0	120,0	197,0	297,0	89,0	102,0	153,0	117,0	183,0	260,0	202,0	309,0	433,0
173,0	195,0	266,0	85,0	109,0	160,0	137,0	161,0	238,0	71,0	108,0	165,0	67,0
122,0	185,0	217,0	239,0	332,0	183,0	230,0	307,0	230,0	339,0	475,0		

Proyecto 056
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6,0 & 5,0 & 7,0 \\ 4,0 & 2,0 & 3,0 \\ 8,0 & 3,0 & 1,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

182,0	83,0	66,0	105,0	48,0	57,0	239,0	128,0	165,0	320,0	175,0	250,0	334,0
171,0	202,0	121,0	54,0	73,0	194,0	95,0	108,0	320,0	175,0	250,0	181,0	116,0
221,0	279,0	144,0	189,0	365,0	192,0	293,0	253,0	106,0	105,0	277,0	148,0	201,0
314,0	163,0	190,0	255,0	109,0	71,0	281,0	136,0	181,0	288,0	127,0	104,0	238,0
107,0	74,0	210,0	107,0	118,0	235,0	138,0	247,0	168,0	79,0	62,0	476,0	239,0
318,0	266,0	131,0	126,0	196,0	99,0	148,0	76,0	45,0	82,0	349,0	186,0	277,0
127,0	59,0	95,0	168,0	75,0	66,0	331,0	158,0	209,0	204,0	111,0	192,0	230,0
103,0	112,0	476,0	239,0	318,0	368,0	185,0	216,0					

Proyecto 057
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

58

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 7{,}0 & 8{,}0 \\ 6{,}0 & 5{,}0 & 6{,}0 \\ 3{,}0 & 6{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

450,0	321,0	300,0	232,0	162,0	143,0	222,0	161,0	160,0	431,0	307,0	279,0	231,0
167,0	163,0	403,0	287,0	255,0	296,0	217,0	252,0	470,0	339,0	364,0	238,0	171,0
200,0	349,0	247,0	217,0	363,0	248,0	184,0	342,0	238,0	209,0	311,0	212,0	140,0
530,0	373,0	330,0	228,0	163,0	155,0	394,0	287,0	318,0	247,0	171,0	137,0	267,0
185,0	163,0	339,0	237,0	225,0	449,0	322,0	318,0	281,0	195,0	157,0	477,0	342,0
342,0	438,0	303,0	258,0	385,0	274,0	262,0	299,0	209,0	164,0	98,0	69,0	70,0
336,0	231,0	162,0	167,0	118,0	120,0	240,0	173,0	166,0	391,0	272,0	210,0	174,0
127,0	137,0	431,0	307,0	279,0	269,0	189,0	175,0	482,0	341,0	290,0		

Proyecto 058
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 1{,}0 & 1{,}0 \\ 5{,}0 & 1{,}0 & 3{,}0 \\ 6{,}0 & 5{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

100,0	142,0	158,0	147,0	166,0	191,0	180,0	183,0	222,0	99,0	103,0	141,0	38,0
47,0	156,0	131,0	157,0	279,0	173,0	192,0	321,0	23,0	32,0	81,0	119,0	135,0
229,0	179,0	154,0	245,0	136,0	172,0	194,0	132,0	152,0	190,0	124,0	153,0	216,0
75,0	124,0	201,0	133,0	155,0	193,0	136,0	175,0	266,0	47,0	72,0	135,0	181,0
156,0	255,0	185,0	187,0	273,0	28,0	45,0	98,0	64,0	99,0	160,0	142,0	177,0
300,0	175,0	166,0	209,0	126,0	125,0	156,0	117,0	119,0	183,0	112,0	152,0	170,0
25,0	38,0	87,0	117,0	120,0	207,0	160,0	194,0	266,0	47,0	71,0	111,0	28,0
45,0	98,0	46,0	97,0	104,0	117,0	107,0	145,0	192,0	223,0	254,0		

Proyecto 059
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

60

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 9{,}0 & 5{,}0 \\ 1{,}0 & 6{,}0 & 1{,}0 \\ 7{,}0 & 6{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

292,0	100,0	295,0	278,0	147,0	258,0	156,0	53,0	134,0	169,0	56,0	233,0	148,0
46,0	187,0	191,0	115,0	154,0	340,0	185,0	308,0	331,0	154,0	313,0	357,0	144,0
369,0	81,0	34,0	79,0	344,0	186,0	315,0	200,0	68,0	206,0	246,0	109,0	199,0
301,0	136,0	223,0	206,0	130,0	151,0	306,0	135,0	270,0	171,0	57,0	165,0	169,0
56,0	233,0	115,0	31,0	163,0	306,0	126,0	261,0	161,0	39,0	177,0	142,0	84,0
117,0	176,0	77,0	206,0	318,0	180,0	279,0	321,0	126,0	297,0	81,0	21,0	75,0
196,0	46,0	205,0	166,0	97,0	130,0	246,0	109,0	199,0	343,0	183,0	261,0	222,0
111,0	228,0	266,0	134,0	209,0	189,0	60,0	249,0	388,0	146,0	395,0		

Proyecto 060
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

61

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 6{,}0 & 1{,}0 \\ 2{,}0 & 3{,}0 & 1{,}0 \\ 2{,}0 & 9{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

37,0	46,0	71,0	60,0	72,0	105,0	30,0	48,0	57,0	113,0	77,0	181,0	146,0
94,0	235,0	54,0	60,0	99,0	133,0	85,0	206,0	189,0	122,0	297,0	108,0	71,0
174,0	66,0	37,0	102,0	200,0	138,0	319,0	102,0	81,0	168,0	124,0	103,0	200,0
51,0	66,0	99,0	152,0	106,0	241,0	94,0	57,0	146,0	190,0	128,0	299,0	137,0
94,0	217,0	144,0	103,0	228,0	181,0	114,0	281,0	181,0	114,0	281,0	139,0	93,0
218,0	43,0	45,0	74,0	205,0	142,0	329,0	63,0	81,0	117,0	28,0	24,0	47,0
196,0	133,0	311,0	111,0	84,0	177,0	134,0	82,0	211,0	49,0	73,0	95,0	62,0
65,0	109,0	84,0	61,0	141,0	144,0	126,0	243,0	87,0	64,0	147,0		

Proyecto 061
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

62

Matriz llave:

$$K = \begin{pmatrix} 3,0 & 1,0 & 2,0 \\ 2,0 & 5,0 & 1,0 \\ 1,0 & 4,0 & 4,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

75,0	46,0	112,0	93,0	69,0	55,0	58,0	89,0	80,0	133,0	84,0	138,0	83,0
107,0	169,0	18,0	15,0	23,0	56,0	150,0	161,0	59,0	120,0	153,0	107,0	175,0
221,0	132,0	200,0	193,0	68,0	61,0	54,0	79,0	168,0	142,0	75,0	166,0	134,0
9,0	23,0	21,0	113,0	169,0	135,0	59,0	121,0	143,0	115,0	188,0	194,0	122,0
94,0	149,0	62,0	45,0	31,0	88,0	132,0	189,0	55,0	52,0	100,0	30,0	57,0
63,0	91,0	59,0	94,0	114,0	84,0	99,0	101,0	179,0	186,0	24,0	26,0	49,0
35,0	83,0	73,0	82,0	50,0	121,0	49,0	67,0	96,0	34,0	76,0	89,0	64,0
38,0	115,0	83,0	55,0	78,0	94,0	118,0	183,0					

Proyecto 062
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 5{,}0 & 9{,}0 \\ 5{,}0 & 6{,}0 & 4{,}0 \\ 8{,}0 & 4{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

```
383,0  257,0  377,0  198,0  178,0  205,0  266,0  172,0  281,0  368,0  238,0  369,0  216,0
126,0  185,0  114,0  93,0   102,0  257,0  168,0  274,0  331,0  241,0  369,0  368,0  238,0
369,0  216,0  151,0  222,0  190,0  141,0  226,0  205,0  207,0  183,0  374,0  321,0  372,0
318,0  251,0  311,0  373,0  243,0  377,0  388,0  268,0  361,0  242,0  182,0  271,0  363,0
247,0  305,0  248,0  215,0  200,0  413,0  297,0  385,0  295,0  200,0  304,0  413,0  297,0
385,0  269,0  291,0  315,0  241,0  147,0  241,0  284,0  205,0  332,0  241,0  176,0  262,0
207,0  122,0  178,0  231,0  189,0  291,0  122,0  121,0  117,0  221,0  127,0  209,0  414,0
327,0  435,0  348,0  214,0  353,0  290,0  191,0  312,0  521,0  401,0  519,0
```

Proyecto 063
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

64

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 4{,}0 & 2{,}0 \\ 6{,}0 & 1{,}0 & 8{,}0 \\ 3{,}0 & 1{,}0 & 6{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

62,0	137,0	95,0	57,0	129,0	84,0	24,0	57,0	37,0	145,0	265,0	196,0	58,0
133,0	95,0	161,0	269,0	184,0	96,0	261,0	169,0	134,0	341,0	227,0	145,0	163,0
102,0	125,0	263,0	158,0	123,0	285,0	174,0	108,0	123,0	75,0	97,0	139,0	94,0
111,0	204,0	149,0	163,0	157,0	102,0	189,0	237,0	156,0	137,0	137,0	108,0	85,0
160,0	115,0	168,0	159,0	99,0	84,0	249,0	169,0	155,0	185,0	138,0	77,0	32,0
27,0	129,0	309,0	192,0	37,0	73,0	48,0	164,0	143,0	87,0	94,0	199,0	133,0
130,0	277,0	183,0	153,0	309,0	216,0	65,0	74,0	57,0	135,0	180,0	117,0	142,0
253,0	163,0	117,0	291,0	178,0	102,0	225,0	143,0	90,0	261,0	191,0		

Proyecto 064
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

65

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 3{,}0 & 8{,}0 \\ 8{,}0 & 7{,}0 & 5{,}0 \\ 4{,}0 & 4{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

239,0	198,0	128,0	236,0	312,0	164,0	266,0	331,0	188,0	188,0	154,0	108,0	257,0
361,0	192,0	169,0	163,0	96,0	293,0	273,0	184,0	120,0	208,0	116,0	146,0	177,0
92,0	331,0	396,0	240,0	188,0	151,0	104,0	215,0	255,0	160,0	366,0	436,0	260,0
296,0	356,0	220,0	53,0	47,0	32,0	238,0	356,0	196,0	264,0	286,0	172,0	328,0
349,0	200,0	313,0	301,0	180,0	311,0	313,0	188,0	239,0	198,0	128,0	318,0	312,0
180,0	220,0	295,0	164,0	89,0	169,0	96,0	218,0	209,0	128,0	371,0	330,0	208,0
193,0	257,0	144,0	153,0	166,0	88,0	220,0	247,0	152,0	288,0	283,0	160,0	238,0
251,0	160,0	227,0	277,0	168,0	424,0	368,0	228,0					

Proyecto 065
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 6,0 & 4,0 \\ 6,0 & 3,0 & 5,0 \\ 1,0 & 3,0 & 4,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

122,0	134,0	95,0	90,0	75,0	54,0	150,0	201,0	93,0	214,0	272,0	118,0	218,0
270,0	143,0	118,0	83,0	64,0	138,0	150,0	90,0	214,0	272,0	118,0	122,0	175,0
38,0	198,0	225,0	117,0	290,0	295,0	146,0	230,0	167,0	146,0	186,0	231,0	108,0
194,0	258,0	131,0	184,0	177,0	145,0	234,0	211,0	132,0	214,0	204,0	157,0	154,0
174,0	127,0	130,0	170,0	91,0	178,0	209,0	70,0	102,0	128,0	84,0	366,0	372,0
210,0	162,0	210,0	123,0	166,0	152,0	85,0	58,0	68,0	22,0	168,0	219,0	75,0
114,0	152,0	69,0	58,0	68,0	22,0	162,0	225,0	78,0	190,0	177,0	124,0	208,0
179,0	121,0	300,0	321,0	165,0	202,0	268,0	139,0					

Proyecto 066
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 3{,}0 & 3{,}0 \\ 1{,}0 & 8{,}0 & 2{,}0 \\ 2{,}0 & 1{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

279,0	145,0	128,0	159,0	118,0	51,0	123,0	53,0	72,0	276,0	114,0	126,0	132,0
54,0	74,0	264,0	82,0	122,0	123,0	179,0	82,0	237,0	275,0	120,0	105,0	227,0
44,0	234,0	96,0	98,0	294,0	157,0	73,0	237,0	188,0	71,0	270,0	69,0	73,0
357,0	205,0	134,0	138,0	77,0	65,0	183,0	211,0	110,0	186,0	98,0	56,0	186,0
168,0	50,0	216,0	236,0	64,0	258,0	181,0	125,0	210,0	104,0	66,0	270,0	213,0
129,0	315,0	247,0	86,0	234,0	165,0	101,0	225,0	56,0	83,0	57,0	77,0	18,0
282,0	77,0	85,0	168,0	48,0	68,0	93,0	35,0	24,0	282,0	59,0	91,0	162,0
163,0	83,0	180,0	195,0	77,0	375,0	205,0	156,0					

Proyecto 067
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

68

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 3{,}0 & 9{,}0 \\ 6{,}0 & 6{,}0 & 6{,}0 \\ 9{,}0 & 6{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

294,0	240,0	330,0	267,0	252,0	355,0	252,0	270,0	381,0	155,0	174,0	234,0	130,0
198,0	211,0	317,0	366,0	448,0	345,0	408,0	511,0	85,0	108,0	121,0	251,0	294,0
366,0	165,0	264,0	347,0	318,0	276,0	384,0	258,0	252,0	344,0	294,0	294,0	383,0
317,0	300,0	369,0	267,0	258,0	352,0	360,0	366,0	465,0	183,0	192,0	229,0	171,0
276,0	359,0	275,0	330,0	436,0	124,0	138,0	159,0	242,0	234,0	289,0	366,0	402,0
497,0	201,0	240,0	339,0	166,0	186,0	261,0	181,0	222,0	288,0	302,0	252,0	348,0
214,0	210,0	249,0	98,0	138,0	161,0	128,0	210,0	231,0	177,0	168,0	223,0	48,0
78,0	89,0	166,0	282,0	341,0	228,0	276,0	338,0	362,0	348,0	448,0		

Proyecto 068
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

69

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 5{,}0 & 7{,}0 \\ 4{,}0 & 8{,}0 & 7{,}0 \\ 4{,}0 & 8{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

386,0 337,0 256,0 268,0 267,0 252,0 190,0 189,0 132,0 271,0 175,0 160,0 230,0
163,0 136,0 145,0 175,0 172,0 314,0 323,0 308,0 357,0 341,0 296,0 443,0 383,0
320,0 95,0   87,0   72,0   322,0 327,0 312,0 268,0 230,0 176,0 250,0 272,0 212,0
287,0 337,0 256,0 136,0 187,0 184,0 328,0 331,0 268,0 223,0 202,0 148,0 271,0
175,0 160,0 199,0 126,0 108,0 336,0 345,0 264,0 249,0 200,0 140,0 112,0 131,0
128,0 226,0 173,0 164,0 276,0 297,0 288,0 379,0 361,0 280,0 113,0 104,0 68,0
298,0 249,0 168,0 175,0 186,0 144,0 136,0 171,0 144,0 218,0 209,0 128,0 288,0
239,0 200,0 235,0 187,0 184,0 233,0 262,0 208,0 424,0 319,0 232,0

Proyecto 069
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 8{,}0 & 2{,}0 \\ 6{,}0 & 4{,}0 & 8{,}0 \\ 9{,}0 & 4{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

130,0	228,0	245,0	235,0	206,0	284,0	161,0	154,0	214,0	211,0	226,0	239,0	241,0
322,0	310,0	171,0	270,0	294,0	246,0	160,0	195,0	340,0	296,0	325,0	185,0	238,0
234,0	97,0	86,0	84,0	387,0	374,0	412,0	231,0	258,0	288,0	319,0	234,0	314,0
188,0	328,0	355,0	305,0	258,0	300,0	157,0	126,0	136,0	367,0	294,0	342,0	268,0
232,0	265,0	303,0	234,0	286,0	324,0	232,0	269,0	324,0	232,0	269,0	268,0	204,0
241,0	140,0	140,0	177,0	392,0	416,0	445,0	249,0	318,0	381,0	69,0	82,0	92,0
344,0	224,0	277,0	266,0	208,0	251,0	148,0	172,0	205,0	436,0	416,0	475,0	255,0
290,0	297,0	141,0	90,0	104,0	367,0	314,0	386,0	447,0	494,0	546,0		

Proyecto 070
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 7{,}0 & 8{,}0 \\ 3{,}0 & 5{,}0 & 1{,}0 \\ 2{,}0 & 7{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

345,0	102,0	148,0	244,0	98,0	139,0	228,0	69,0	69,0	220,0	89,0	99,0	386,0
157,0	198,0	430,0	125,0	127,0	335,0	142,0	140,0	502,0	200,0	229,0	110,0	43,0
41,0	360,0	108,0	99,0	203,0	118,0	166,0	530,0	187,0	215,0	242,0	151,0	201,0
184,0	101,0	140,0	502,0	167,0	187,0	91,0	50,0	64,0	488,0	208,0	259,0	368,0
106,0	113,0	339,0	84,0	85,0	432,0	117,0	117,0	139,0	77,0	108,0	452,0	196,0
251,0	193,0	62,0	49,0	267,0	108,0	109,0	358,0	125,0	189,0	66,0	18,0	21,0
230,0	142,0	199,0	304,0	59,0	79,0	165,0	90,0	119,0	303,0	105,0	148,0	250,0
152,0	203,0	182,0	103,0	145,0	482,0	115,0	119,0					

Proyecto 071
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3,0 & 8,0 & 1,0 \\ 4,0 & 1,0 & 2,0 \\ 3,0 & 2,0 & 9,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

156,0	139,0	318,0	163,0	77,0	129,0	81,0	111,0	227,0	127,0	139,0	313,0	71,0
59,0	193,0	87,0	33,0	81,0	80,0	109,0	218,0	140,0	151,0	262,0	127,0	139,0
313,0	93,0	85,0	175,0	75,0	97,0	149,0	236,0	57,0	114,0	289,0	135,0	255,0
206,0	112,0	234,0	130,0	143,0	316,0	189,0	125,0	315,0	113,0	111,0	187,0	194,0
93,0	296,0	231,0	55,0	165,0	224,0	133,0	326,0	114,0	117,0	244,0	224,0	133,0
326,0	292,0	129,0	138,0	66,0	91,0	212,0	105,0	141,0	227,0	108,0	105,0	190,0
70,0	57,0	184,0	227,0	160,0	275,0	74,0	73,0	96,0	204,0	145,0	330,0	149,0
56,0	197,0	131,0	42,0	79,0	243,0	71,0	177,0	130,0	125,0	320,0		

Proyecto 072
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

73

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 3{,}0 & 2{,}0 \\ 1{,}0 & 6{,}0 & 9{,}0 \\ 4{,}0 & 3{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

69,0	144,0	111,0	72,0	108,0	99,0	31,0	46,0	43,0	136,0	362,0	239,0	61,0
151,0	109,0	172,0	309,0	237,0	131,0	195,0	189,0	169,0	293,0	257,0	158,0	188,0
161,0	174,0	165,0	195,0	174,0	180,0	207,0	121,0	131,0	119,0	102,0	168,0	129,0
107,0	269,0	182,0	166,0	222,0	171,0	200,0	289,0	229,0	112,0	280,0	163,0	85,0
200,0	140,0	177,0	207,0	171,0	107,0	216,0	183,0	138,0	311,0	197,0	61,0	118,0
64,0	180,0	207,0	225,0	44,0	68,0	59,0	177,0	207,0	171,0	88,0	165,0	135,0
44,0	66,0	45,0	178,0	190,0	163,0	144,0	169,0	148,0	100,0	119,0	122,0	241,0
323,0	275,0	131,0	208,0	187,0	32,0	100,0	67,0	175,0	360,0	276,0		

Proyecto 073
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

74

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 5{,}0 & 9{,}0 \\ 3{,}0 & 4{,}0 & 5{,}0 \\ 5{,}0 & 7{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

212,0	135,0	86,0	155,0	138,0	227,0	231,0	177,0	235,0	205,0	124,0	69,0	190,0
166,0	276,0	130,0	92,0	88,0	328,0	206,0	150,0	135,0	110,0	183,0	83,0	75,0
119,0	348,0	245,0	278,0	192,0	117,0	64,0	250,0	170,0	180,0	363,0	260,0	303,0
333,0	230,0	253,0	58,0	36,0	24,0	219,0	180,0	287,0	245,0	172,0	181,0	252,0
187,0	212,0	253,0	176,0	163,0	267,0	186,0	181,0	212,0	135,0	86,0	231,0	168,0
171,0	189,0	151,0	221,0	118,0	94,0	156,0	190,0	129,0	114,0	328,0	215,0	162,0
170,0	134,0	192,0	86,0	73,0	100,0	228,0	157,0	164,0	300,0	221,0	256,0	114,0
92,0	152,0	189,0	120,0	93,0	231,0	180,0	265,0	358,0	228,0	172,0		

Proyecto 074
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7,0 & 4,0 & 4,0 \\ 1,0 & 9,0 & 9,0 \\ 6,0 & 4,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

124,0	220,0	82,0	81,0	138,0	66,0	202,0	189,0	148,0	285,0	243,0	220,0	268,0
308,0	194,0	97,0	174,0	86,0	151,0	207,0	112,0	285,0	243,0	220,0	201,0	54,0
170,0	234,0	261,0	180,0	329,0	342,0	274,0	179,0	388,0	146,0	239,0	228,0	182,0
252,0	272,0	178,0	163,0	352,0	108,0	231,0	328,0	190,0	196,0	382,0	138,0	156,0
292,0	98,0	164,0	192,0	114,0	241,0	144,0	206,0	115,0	185,0	72,0	397,0	495,0
316,0	196,0	264,0	130,0	172,0	210,0	146,0	79,0	45,0	68,0	325,0	333,0	262,0
137,0	87,0	112,0	301,0	397,0	228,0	83,0	172,0	68,0	213,0	258,0	180,0	300,0
380,0	226,0	256,0	340,0	186,0	172,0	210,0	146,0	405,0	513,0	320,0		

Proyecto 075
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 9{,}0 & 6{,}0 \\ 7{,}0 & 3{,}0 & 7{,}0 \\ 1{,}0 & 4{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

338,0	349,0	298,0	198,0	155,0	105,0	158,0	185,0	182,0	307,0	344,0	283,0	163,0
192,0	183,0	271,0	332,0	267,0	284,0	205,0	258,0	438,0	319,0	342,0	278,0	123,0
154,0	249,0	274,0	209,0	285,0	244,0	100,0	300,0	221,0	143,0	201,0	236,0	88,0
414,0	387,0	284,0	174,0	176,0	155,0	358,0	281,0	324,0	191,0	174,0	97,0	247,0
162,0	99,0	331,0	200,0	149,0	363,0	336,0	314,0	213,0	202,0	117,0	399,0	348,0
330,0	386,0	277,0	160,0	315,0	280,0	242,0	193,0	241,0	150,0	102,0	55,0	48,0
216,0	261,0	120,0	169,0	98,0	88,0	168,0	199,0	184,0	261,0	306,0	178,0	144,0
134,0	149,0	307,0	344,0	283,0	195,0	167,0	168,0	444,0	437,0	348,0		

Proyecto 076
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 5{,}0 & 7{,}0 \\ 9{,}0 & 1{,}0 & 3{,}0 \\ 8{,}0 & 6{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

278,0	190,0	210,0	292,0	250,0	254,0	309,0	291,0	294,0	191,0	159,0	184,0	177,0
51,0	190,0	373,0	213,0	354,0	422,0	276,0	410,0	102,0	36,0	100,0	303,0	191,0
292,0	276,0	262,0	316,0	320,0	244,0	258,0	284,0	224,0	250,0	319,0	213,0	280,0
314,0	144,0	256,0	291,0	227,0	254,0	389,0	235,0	342,0	194,0	84,0	170,0	286,0
264,0	328,0	355,0	291,0	354,0	135,0	49,0	122,0	245,0	119,0	204,0	415,0	237,0
382,0	272,0	274,0	276,0	211,0	201,0	206,0	235,0	183,0	236,0	292,0	208,0	226,0
116,0	42,0	108,0	258,0	180,0	264,0	310,0	238,0	298,0	306,0	292,0	286,0	249,0
209,0	230,0	242,0	122,0	170,0	229,0	205,0	206,0	327,0	165,0	262,0		

Proyecto 077
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 3{,}0 & 1{,}0 \\ 4{,}0 & 5{,}0 & 8{,}0 \\ 8{,}0 & 9{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

187,0	337,0	395,0	180,0	209,0	347,0	62,0	193,0	191,0	206,0	168,0	282,0	151,0
163,0	233,0	97,0	122,0	216,0	212,0	247,0	417,0	208,0	296,0	422,0	258,0	356,0
486,0	52,0	80,0	106,0	219,0	251,0	425,0	134,0	230,0	274,0	97,0	250,0	286,0
88,0	310,0	332,0	85,0	125,0	219,0	156,0	301,0	375,0	96,0	205,0	225,0	206,0
168,0	282,0	142,0	129,0	197,0	135,0	327,0	369,0	114,0	217,0	233,0	75,0	93,0
163,0	170,0	149,0	259,0	189,0	219,0	381,0	174,0	346,0	408,0	36,0	113,0	105,0
121,0	273,0	275,0	181,0	274,0	380,0	55,0	189,0	183,0	187,0	203,0	369,0	120,0
203,0	249,0	173,0	277,0	345,0	165,0	359,0	413,0					

Proyecto 078
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 3{,}0 & 6{,}0 \\ 7{,}0 & 9{,}0 & 6{,}0 \\ 6{,}0 & 1{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

193,0	215,0	149,0	171,0	237,0	184,0	126,0	222,0	104,0	295,0	353,0	265,0	229,0
323,0	152,0	42,0	54,0	35,0	164,0	328,0	85,0	173,0	295,0	98,0	285,0	459,0
188,0	296,0	508,0	237,0	132,0	192,0	132,0	181,0	371,0	131,0	169,0	359,0	123,0
23,0	49,0	14,0	231,0	417,0	204,0	165,0	291,0	98,0	273,0	471,0	203,0	282,0
354,0	239,0	110,0	154,0	123,0	244,0	368,0	157,0	149,0	187,0	105,0	78,0	138,0
51,0	201,0	243,0	181,0	234,0	306,0	225,0	247,0	437,0	175,0	68,0	88,0	45,0
85,0	179,0	56,0	210,0	234,0	163,0	236,0	328,0	199,0	193,0	263,0	177,0	92,0
256,0	37,0	164,0	304,0	134,0	112,0	164,0	108,0	354,0	498,0	293,0		

Proyecto 079
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 5{,}0 & 7{,}0 \\ 8{,}0 & 6{,}0 & 2{,}0 \\ 9{,}0 & 5{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

279,0	166,0	240,0	191,0	142,0	172,0	168,0	156,0	195,0	158,0	168,0	187,0	289,0
262,0	301,0	320,0	284,0	363,0	229,0	290,0	308,0	365,0	370,0	418,0	76,0	92,0
101,0	261,0	258,0	318,0	151,0	150,0	144,0	394,0	360,0	433,0	172,0	204,0	185,0
137,0	134,0	133,0	374,0	336,0	413,0	65,0	74,0	72,0	361,0	346,0	386,0	277,0
234,0	304,0	258,0	204,0	280,0	324,0	276,0	363,0	104,0	100,0	99,0	337,0	314,0
350,0	134,0	156,0	182,0	186,0	220,0	240,0	290,0	176,0	239,0	51,0	38,0	52,0
169,0	178,0	164,0	248,0	132,0	221,0	98,0	88,0	97,0	162,0	148,0	186,0	290,0
176,0	239,0	155,0	174,0	154,0	136,0	132,0	129,0	490,0	424,0	513,0		

Proyecto 080
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1,0 & 6,0 & 8,0 \\ 1,0 & 1,0 & 1,0 \\ 3,0 & 5,0 & 4,0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

289,0	55,0	210,0	158,0	34,0	139,0	176,0	38,0	135,0	266,0	52,0	193,0	186,0
28,0	113,0	105,0	18,0	78,0	168,0	37,0	131,0	209,0	51,0	182,0	266,0	52,0
193,0	155,0	32,0	120,0	105,0	30,0	102,0	207,0	37,0	170,0	309,0	62,0	256,0
259,0	50,0	203,0	267,0	53,0	196,0	320,0	56,0	225,0	154,0	38,0	137,0	335,0
51,0	218,0	259,0	40,0	186,0	345,0	61,0	248,0	208,0	43,0	159,0	345,0	61,0
248,0	195,0	53,0	214,0	171,0	33,0	120,0	161,0	44,0	150,0	160,0	37,0	135,0
178,0	27,0	109,0	161,0	44,0	150,0	160,0	37,0	135,0	266,0	39,0	161,0	267,0
61,0	233,0	73,0	23,0	80,0	341,0	63,0	248,0					

Proyecto 081
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

82

Matriz llave:

$$K = \begin{pmatrix} 8,0 & 7,0 & 3,0 \\ 5,0 & 1,0 & 4,0 \\ 1,0 & 3,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

160,0	137,0	110,0	310,0	152,0	71,0	313,0	154,0	119,0	116,0	96,0	113,0	359,0
159,0	92,0	145,0	103,0	64,0	219,0	147,0	182,0	206,0	60,0	75,0	175,0	98,0
35,0	358,0	173,0	190,0	115,0	100,0	104,0	225,0	105,0	140,0	398,0	198,0	195,0
318,0	148,0	185,0	37,0	27,0	32,0	350,0	134,0	115,0	256,0	148,0	129,0	321,0
200,0	124,0	265,0	187,0	127,0	277,0	181,0	137,0	160,0	137,0	110,0	282,0	198,0
111,0	285,0	128,0	97,0	167,0	39,0	68,0	181,0	126,0	98,0	276,0	213,0	170,0
272,0	180,0	141,0	234,0	157,0	100,0	254,0	108,0	177,0	226,0	142,0	153,0	115,0
77,0	35,0	327,0	201,0	204,0	272,0	197,0	178,0	278,0	205,0	188,0		

Proyecto 082
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

83

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 2{,}0 & 2{,}0 \\ 8{,}0 & 8{,}0 & 3{,}0 \\ 9{,}0 & 4{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

243,0	305,0	423,0	196,0	311,0	268,0	84,0	129,0	208,0	261,0	263,0	299,0	195,0
203,0	255,0	92,0	195,0	134,0	226,0	375,0	310,0	241,0	357,0	371,0	317,0	407,0
475,0	63,0	87,0	101,0	235,0	383,0	319,0	174,0	214,0	294,0	113,0	212,0	261,0
99,0	233,0	297,0	71,0	195,0	119,0	184,0	295,0	344,0	127,0	166,0	245,0	261,0
263,0	299,0	185,0	178,0	223,0	165,0	273,0	357,0	159,0	172,0	281,0	73,0	147,0
105,0	204,0	241,0	240,0	195,0	345,0	267,0	217,0	313,0	407,0	53,0	68,0	127,0
173,0	193,0	337,0	55,0	111,0	103,0	150,0	163,0	210,0	101,0	241,0	301,0	155,0
236,0	209,0	99,0	181,0	213,0	303,0	311,0	479,0					

Proyecto 083
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 4{,}0 & 7{,}0 \\ 6{,}0 & 6{,}0 & 4{,}0 \\ 6{,}0 & 2{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

173,0	154,0	131,0	122,0	204,0	181,0	88,0	144,0	137,0	185,0	200,0	126,0	280,0
252,0	149,0	204,0	192,0	159,0	123,0	196,0	115,0	241,0	298,0	177,0	204,0	190,0
115,0	78,0	86,0	41,0	298,0	352,0	225,0	198,0	222,0	159,0	152,0	262,0	197,0
247,0	222,0	191,0	198,0	264,0	171,0	106,0	134,0	73,0	228,0	312,0	195,0	181,0
234,0	149,0	172,0	254,0	169,0	185,0	266,0	153,0	185,0	266,0	153,0	157,0	224,0
139,0	93,0	128,0	107,0	337,0	370,0	237,0	219,0	252,0	222,0	62,0	68,0	51,0
169,0	274,0	165,0	155,0	224,0	147,0	93,0	128,0	107,0	197,0	232,0	212,0	172,0
194,0	160,0	221,0	162,0	115,0	100,0	154,0	81,0	275,0	230,0	141,0		

Proyecto 084
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 6{,}0 & 3{,}0 \\ 8{,}0 & 7{,}0 & 4{,}0 \\ 1{,}0 & 1{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

168,0	232,0	125,0	141,0	185,0	74,0	90,0	177,0	54,0	108,0	187,0	42,0	207,0
312,0	94,0	168,0	327,0	108,0	156,0	304,0	43,0	249,0	419,0	104,0	48,0	97,0
16,0	135,0	285,0	78,0	150,0	182,0	43,0	246,0	419,0	128,0	180,0	233,0	36,0
129,0	162,0	40,0	222,0	391,0	124,0	60,0	84,0	15,0	267,0	405,0	110,0	147,0
275,0	98,0	123,0	243,0	97,0	162,0	321,0	114,0	99,0	122,0	31,0	255,0	373,0
106,0	69,0	163,0	31,0	123,0	235,0	41,0	198,0	249,0	128,0	27,0	47,0	20,0
177,0	213,0	44,0	114,0	187,0	118,0	96,0	120,0	41,0	180,0	282,0	69,0	183,0
311,0	93,0	213,0	376,0	91,0	132,0	166,0	75,0	318,0	507,0	168,0		

Proyecto 085
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 9{,}0 & 6{,}0 \\ 3{,}0 & 2{,}0 & 6{,}0 \\ 5{,}0 & 6{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

262,0	237,0	311,0	189,0	108,0	192,0	141,0	170,0	210,0	227,0	232,0	292,0	163,0
136,0	164,0	120,0	63,0	105,0	135,0	164,0	204,0	186,0	205,0	279,0	227,0	232,0
292,0	142,0	133,0	179,0	88,0	119,0	161,0	278,0	99,0	217,0	358,0	207,0	353,0
279,0	183,0	285,0	228,0	235,0	297,0	311,0	234,0	322,0	143,0	148,0	208,0	338,0
215,0	301,0	316,0	129,0	239,0	348,0	245,0	351,0	183,0	184,0	240,0	348,0	245,0
351,0	274,0	135,0	293,0	136,0	155,0	185,0	132,0	179,0	237,0	147,0	148,0	204,0
157,0	130,0	158,0	108,0	155,0	213,0	250,0	159,0	233,0	267,0	145,0	243,0	372,0
213,0	351,0	252,0	179,0	249,0	45,0	62,0	90,0	351,0	255,0	357,0		

Proyecto 086
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 6{,}0 & 8{,}0 \\ 8{,}0 & 7{,}0 & 3{,}0 \\ 7{,}0 & 7{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

162,0	119,0	137,0	144,0	120,0	129,0	62,0	51,0	55,0	360,0	254,0	303,0	158,0
106,0	128,0	364,0	313,0	338,0	266,0	208,0	228,0	366,0	276,0	310,0	268,0	298,0
291,0	288,0	287,0	284,0	300,0	282,0	285,0	198,0	226,0	218,0	204,0	190,0	199,0
274,0	198,0	233,0	292,0	324,0	319,0	372,0	377,0	382,0	272,0	236,0	261,0	210,0
155,0	180,0	294,0	342,0	330,0	254,0	169,0	201,0	320,0	277,0	304,0	122,0	137,0
138,0	324,0	291,0	300,0	88,0	76,0	81,0	294,0	342,0	330,0	196,0	149,0	168,0
80,0	90,0	89,0	284,0	344,0	327,0	244,0	269,0	263,0	180,0	167,0	171,0	422,0
436,0	436,0	270,0	202,0	237,0	442,0	341,0	390,0					

Proyecto 087
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

88

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 3{,}0 & 9{,}0 \\ 7{,}0 & 9{,}0 & 6{,}0 \\ 4{,}0 & 6{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

258,0	207,0	168,0	237,0	312,0	192,0	275,0	356,0	242,0	207,0	180,0	156,0	258,0
375,0	234,0	178,0	163,0	118,0	320,0	323,0	266,0	121,0	244,0	160,0	147,0	168,0
102,0	350,0	455,0	332,0	206,0	170,0	146,0	230,0	305,0	230,0	385,0	490,0	352,0
315,0	420,0	312,0	58,0	55,0	46,0	241,0	394,0	256,0	279,0	312,0	228,0	342,0
354,0	246,0	331,0	307,0	226,0	329,0	329,0	242,0	258,0	207,0	168,0	333,0	306,0
216,0	225,0	318,0	210,0	90,0	207,0	138,0	232,0	220,0	166,0	398,0	347,0	272,0
277,0	292,0	208,0	192,0	261,0	162,0	235,0	271,0	214,0	336,0	315,0	222,0	162,0
150,0	126,0	398,0	347,0	272,0	265,0	424,0	268,0	495,0	498,0	372,0		

Proyecto 088
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 4{,}0 & 9{,}0 \\ 9{,}0 & 7{,}0 & 2{,}0 \\ 4{,}0 & 8{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

450,0	288,0	256,0	201,0	202,0	164,0	238,0	108,0	112,0	443,0	269,0	228,0	247,0
117,0	116,0	427,0	241,0	196,0	266,0	170,0	224,0	414,0	320,0	352,0	162,0	208,0
240,0	353,0	235,0	188,0	316,0	357,0	240,0	287,0	312,0	252,0	304,0	281,0	160,0
500,0	404,0	328,0	227,0	144,0	132,0	364,0	232,0	280,0	225,0	217,0	156,0	211,0
261,0	212,0	261,0	321,0	284,0	434,0	287,0	280,0	261,0	239,0	172,0	450,0	315,0
312,0	360,0	420,0	328,0	362,0	271,0	248,0	310,0	215,0	144,0	72,0	92,0	88,0
400,0	394,0	296,0	296,0	321,0	256,0	364,0	178,0	168,0	235,0	157,0	204,0	137,0
151,0	148,0	162,0	236,0	240,0	564,0	406,0	344,0					

Proyecto 089
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2,0 & 7,0 & 5,0 \\ 7,0 & 3,0 & 3,0 \\ 9,0 & 8,0 & 7,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

166,0	168,0	305,0	149,0	210,0	337,0	150,0	243,0	372,0	115,0	143,0	237,0	216,0
103,0	260,0	317,0	239,0	482,0	331,0	288,0	545,0	111,0	58,0	140,0	243,0	203,0
391,0	171,0	240,0	378,0	178,0	210,0	359,0	166,0	198,0	335,0	224,0	207,0	385,0
271,0	170,0	378,0	171,0	201,0	342,0	298,0	243,0	476,0	181,0	108,0	245,0	185,0
246,0	394,0	227,0	269,0	452,0	138,0	73,0	176,0	208,0	137,0	297,0	344,0	261,0
526,0	127,0	228,0	338,0	104,0	169,0	258,0	161,0	175,0	303,0	170,0	182,0	323,0
94,0	63,0	134,0	94,0	134,0	213,0	270,0	145,0	350,0	204,0	109,0	263,0	128,0
89,0	185,0	324,0	191,0	436,0	374,0	351,0	646,0					

Proyecto 090
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

91

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 1{,}0 & 2{,}0 \\ 5{,}0 & 5{,}0 & 7{,}0 \\ 9{,}0 & 5{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

196,0	329,0	243,0	143,0	220,0	254,0	71,0	178,0	80,0	203,0	190,0	268,0	154,0
173,0	195,0	62,0	127,0	145,0	163,0	260,0	302,0	183,0	300,0	286,0	247,0	362,0
344,0	49,0	80,0	70,0	170,0	265,0	311,0	140,0	226,0	174,0	89,0	235,0	135,0
79,0	284,0	126,0	44,0	127,0	133,0	143,0	292,0	214,0	104,0	196,0	124,0	203,0
190,0	268,0	146,0	142,0	182,0	132,0	309,0	183,0	132,0	210,0	142,0	50,0	97,0
111,0	155,0	166,0	228,0	138,0	231,0	273,0	173,0	334,0	232,0	46,0	104,0	44,0
146,0	259,0	149,0	49,0	116,0	114,0	89,0	235,0	135,0	70,0	188,0	184,0	79,0
122,0	152,0	106,0	131,0	165,0	46,0	182,0	150,0	135,0	318,0	180,0		

Proyecto 091
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 3{,}0 & 1{,}0 \\ 1{,}0 & 6{,}0 & 7{,}0 \\ 3{,}0 & 6{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

58,0	151,0	175,0	99,0	78,0	132,0	69,0	48,0	90,0	86,0	197,0	215,0	99,0
308,0	318,0	75,0	180,0	210,0	97,0	139,0	163,0	136,0	267,0	295,0	76,0	222,0
232,0	38,0	96,0	98,0	157,0	314,0	352,0	96,0	192,0	222,0	130,0	130,0	184,0
84,0	213,0	249,0	123,0	206,0	240,0	62,0	124,0	134,0	147,0	244,0	282,0	108,0
191,0	219,0	122,0	174,0	212,0	128,0	211,0	239,0	128,0	211,0	239,0	107,0	169,0
197,0	59,0	73,0	101,0	160,0	355,0	391,0	108,0	171,0	225,0	29,0	58,0	68,0
151,0	292,0	328,0	102,0	129,0	165,0	87,0	224,0	234,0	102,0	114,0	168,0	58,0
111,0	139,0	37,0	34,0	52,0	138,0	216,0	270,0	86,0	297,0	305,0		

Proyecto 092
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 8{,}0 & 2{,}0 \\ 7{,}0 & 3{,}0 & 5{,}0 \\ 3{,}0 & 3{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

90,0	184,0	152,0	134,0	220,0	112,0	154,0	145,0	97,0	166,0	320,0	216,0	186,0
212,0	192,0	28,0	44,0	32,0	246,0	153,0	149,0	200,0	157,0	153,0	298,0	276,0
240,0	346,0	331,0	231,0	114,0	163,0	91,0	282,0	204,0	148,0	278,0	194,0	138,0
38,0	24,0	20,0	294,0	280,0	172,0	202,0	156,0	144,0	322,0	292,0	220,0	178,0
297,0	213,0	88,0	146,0	70,0	226,0	227,0	207,0	94,0	138,0	122,0	96,0	78,0
66,0	116,0	219,0	147,0	162,0	273,0	165,0	304,0	259,0	203,0	46,0	61,0	57,0
138,0	92,0	72,0	98,0	201,0	165,0	142,0	88,0	72,0	172,0	177,0	157,0	274,0
211,0	191,0	182,0	207,0	171,0	64,0	107,0	59,0	262,0	304,0	244,0		

Proyecto 093
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

94

Matriz llave:

$$K = \begin{pmatrix} 8,0 & 8,0 & 2,0 \\ 1,0 & 9,0 & 3,0 \\ 7,0 & 3,0 & 3,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

190,0	194,0	152,0	172,0	180,0	108,0	162,0	69,0	141,0	186,0	109,0	133,0	302,0
239,0	203,0	294,0	129,0	261,0	314,0	138,0	228,0	412,0	258,0	294,0	98,0	39,0
75,0	264,0	90,0	234,0	194,0	214,0	88,0	394,0	243,0	303,0	258,0	251,0	119,0
170,0	179,0	83,0	362,0	207,0	291,0	90,0	78,0	48,0	400,0	310,0	262,0	244,0
120,0	216,0	206,0	86,0	200,0	282,0	117,0	261,0	128,0	139,0	61,0	368,0	306,0
234,0	158,0	36,0	138,0	238,0	110,0	176,0	214,0	253,0	145,0	40,0	24,0	36,0
232,0	256,0	100,0	134,0	99,0	147,0	262,0	157,0	217,0	226,0	104,0	194,0	262,0
301,0	145,0	264,0	240,0	180,0	146,0	125,0	77,0	282,0	123,0	279,0		

Proyecto 094
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

95

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 5{,}0 & 2{,}0 \\ 7{,}0 & 4{,}0 & 2{,}0 \\ 3{,}0 & 1{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

251,0	223,0	255,0	185,0	158,0	100,0	187,0	168,0	188,0	239,0	214,0	254,0	95,0
86,0	150,0	81,0	69,0	60,0	185,0	166,0	181,0	279,0	247,0	219,0	239,0	214,0
254,0	157,0	139,0	142,0	177,0	157,0	128,0	185,0	153,0	77,0	319,0	273,0	196,0
244,0	211,0	182,0	247,0	221,0	257,0	241,0	212,0	246,0	211,0	186,0	156,0	189,0
165,0	223,0	167,0	139,0	114,0	269,0	235,0	253,0	209,0	186,0	199,0	269,0	235,0
253,0	337,0	285,0	109,0	147,0	133,0	173,0	253,0	225,0	194,0	197,0	174,0	157,0
93,0	84,0	143,0	253,0	225,0	194,0	197,0	174,0	157,0	111,0	102,0	206,0	82,0
69,0	64,0	228,0	195,0	126,0	279,0	246,0	262,0	255,0	227,0	269,0		

Proyecto 095
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

96

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 3{,}0 & 6{,}0 \\ 7{,}0 & 4{,}0 & 1{,}0 \\ 6{,}0 & 6{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

105,0	74,0	162,0	90,0	84,0	144,0	39,0	36,0	62,0	234,0	138,0	360,0	105,0
61,0	158,0	222,0	201,0	364,0	171,0	149,0	266,0	237,0	187,0	366,0	144,0	208,0
268,0	168,0	221,0	288,0	180,0	216,0	300,0	105,0	161,0	198,0	120,0	124,0	204,0
177,0	111,0	274,0	156,0	218,0	292,0	210,0	253,0	372,0	162,0	128,0	272,0	135,0
90,0	210,0	153,0	237,0	294,0	171,0	110,0	254,0	192,0	159,0	320,0	63,0	80,0
122,0	198,0	219,0	324,0	54,0	52,0	88,0	231,0	250,0	398,0	117,0	189,0	222,0
162,0	126,0	264,0	180,0	209,0	296,0	153,0	160,0	250,0	195,0	90,0	286,0	180,0
209,0	296,0	153,0	160,0	250,0	189,0	75,0	270,0	261,0	205,0	406,0		

Proyecto 096
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1,0 & 9,0 & 9,0 \\ 4,0 & 2,0 & 8,0 \\ 4,0 & 6,0 & 8,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

192,0	202,0	206,0	153,0	142,0	194,0	263,0	188,0	260,0	219,0	174,0	194,0	216,0
156,0	236,0	112,0	128,0	136,0	374,0	264,0	320,0	205,0	78,0	162,0	63,0	88,0
104,0	428,0	262,0	370,0	194,0	170,0	182,0	320,0	180,0	260,0	433,0	282,0	390,0
423,0	242,0	350,0	64,0	48,0	56,0	289,0	154,0	262,0	267,0	206,0	258,0	234,0
238,0	274,0	229,0	242,0	262,0	263,0	242,0	278,0	192,0	202,0	206,0	189,0	234,0
246,0	225,0	148,0	220,0	192,0	60,0	140,0	184,0	174,0	194,0	308,0	306,0	326,0
313,0	220,0	292,0	219,0	174,0	194,0	267,0	122,0	230,0	210,0	182,0	210,0	279,0
250,0	286,0	391,0	298,0	358,0	362,0	330,0	366,0					

Proyecto 097
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

98

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 2{,}0 & 3{,}0 \\ 3{,}0 & 5{,}0 & 7{,}0 \\ 6{,}0 & 6{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

91,0	170,0	73,0	54,0	96,0	78,0	164,0	185,0	132,0	229,0	239,0	211,0	211,0
274,0	177,0	60,0	112,0	112,0	113,0	167,0	111,0	229,0	239,0	211,0	170,0	100,0
170,0	180,0	225,0	180,0	246,0	284,0	302,0	108,0	250,0	184,0	190,0	214,0	174,0
203,0	254,0	153,0	111,0	252,0	105,0	162,0	242,0	218,0	135,0	276,0	141,0	115,0
226,0	81,0	131,0	174,0	97,0	192,0	154,0	220,0	89,0	153,0	55,0	293,0	395,0
339,0	155,0	230,0	105,0	123,0	160,0	169,0	63,0	49,0	73,0	197,0	164,0	195,0
125,0	138,0	103,0	63,0	49,0	73,0	227,0	239,0	285,0	169,0	192,0	239,0	161,0
233,0	111,0	123,0	160,0	169,0	229,0	244,0	291,0	299,0	409,0	341,0		

Proyecto 098
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5,0 & 9,0 & 8,0 \\ 8,0 & 5,0 & 6,0 \\ 9,0 & 8,0 & 4,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

392,0	359,0	351,0	208,0	186,0	224,0	196,0	175,0	147,0	361,0	347,0	328,0	201,0
183,0	156,0	325,0	327,0	296,0	326,0	219,0	229,0	488,0	357,0	397,0	288,0	173,0
245,0	287,0	283,0	278,0	287,0	302,0	375,0	310,0	274,0	342,0	211,0	266,0	295,0
456,0	427,0	463,0	202,0	181,0	177,0	412,0	297,0	305,0	201,0	203,0	236,0	249,0
213,0	282,0	337,0	265,0	354,0	417,0	352,0	355,0	227,0	231,0	262,0	453,0	372,0
387,0	392,0	353,0	453,0	353,0	304,0	323,0	221,0	249,0	244,0	104,0	75,0	103,0
423,0	404,0	443,0	142,0	165,0	179,0	446,0	389,0	399,0	293,0	196,0	209,0	183,0
134,0	173,0	276,0	181,0	265,0	502,0	465,0	479,0					

Proyecto 099
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 9{,}0 & 7{,}0 \\ 2{,}0 & 1{,}0 & 8{,}0 \\ 1{,}0 & 2{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

282,0	241,0	122,0	296,0	203,0	103,0	321,0	177,0	93,0	215,0	106,0	62,0	285,0
69,0	75,0	481,0	215,0	148,0	530,0	229,0	155,0	150,0	54,0	45,0	383,0	168,0
114,0	340,0	78,0	63,0	324,0	253,0	128,0	304,0	193,0	104,0	367,0	218,0	127,0
386,0	244,0	149,0	311,0	201,0	108,0	465,0	265,0	161,0	254,0	133,0	89,0	358,0
80,0	67,0	415,0	179,0	112,0	187,0	87,0	63,0	301,0	184,0	113,0	523,0	257,0
169,0	288,0	130,0	71,0	223,0	113,0	61,0	283,0	116,0	76,0	296,0	245,0	124,0
184,0	47,0	46,0	301,0	184,0	113,0	411,0	189,0	135,0	374,0	197,0	127,0	159,0
31,0	35,0	214,0	64,0	35,0	381,0	275,0	145,0					

Proyecto 100
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 9{,}0 & 8{,}0 \\ 9{,}0 & 7{,}0 & 3{,}0 \\ 1{,}0 & 6{,}0 & 1{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

430,0	315,0	100,0	341,0	306,0	147,0	225,0	128,0	53,0	265,0	286,0	56,0	232,0
219,0	46,0	212,0	183,0	115,0	409,0	366,0	185,0	433,0	356,0	154,0	501,0	418,0
144,0	111,0	88,0	34,0	416,0	375,0	186,0	296,0	222,0	68,0	321,0	203,0	109,0
385,0	216,0	136,0	218,0	177,0	130,0	405,0	290,0	135,0	252,0	170,0	57,0	265,0
286,0	56,0	190,0	196,0	31,0	414,0	267,0	126,0	260,0	184,0	39,0	160,0	139,0
84,0	245,0	252,0	77,0	372,0	333,0	180,0	447,0	314,0	126,0	126,0	70,0	21,0
316,0	205,0	46,0	171,0	114,0	80,0	339,0	288,0	132,0	377,0	316,0	113,0	429,0
391,0	135,0	253,0	152,0	100,0	646,0	505,0	206,0					

Proyecto 101
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 3{,}0 & 9{,}0 \\ 8{,}0 & 1{,}0 & 9{,}0 \\ 2{,}0 & 8{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

306,0	340,0	140,0	248,0	285,0	114,0	73,0	62,0	118,0	154,0	196,0	124,0	131,0
80,0	238,0	221,0	224,0	274,0	150,0	132,0	244,0	87,0	111,0	76,0	205,0	201,0
124,0	183,0	174,0	258,0	360,0	377,0	250,0	304,0	295,0	214,0	87,0	54,0	178,0
177,0	159,0	256,0	261,0	258,0	214,0	321,0	392,0	170,0	150,0	123,0	186,0	172,0
160,0	136,0	258,0	329,0	142,0	324,0	363,0	278,0	156,0	139,0	214,0	282,0	298,0
248,0	289,0	322,0	302,0	122,0	101,0	134,0	210,0	236,0	124,0	165,0	232,0	114,0
195,0	213,0	144,0	295,0	292,0	190,0	215,0	186,0	202,0	103,0	90,0	138,0	268,0
229,0	298,0	174,0	197,0	206,0	441,0	492,0	290,0					

Proyecto 102
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3,0 & 4,0 & 4,0 \\ 5,0 & 1,0 & 3,0 \\ 5,0 & 8,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

136,0	127,0	228,0	169,0	114,0	299,0	43,0	42,0	51,0	177,0	169,0	297,0	242,0
177,0	346,0	167,0	100,0	171,0	145,0	143,0	193,0	116,0	107,0	186,0	153,0	183,0
189,0	207,0	161,0	239,0	81,0	103,0	137,0	205,0	196,0	293,0	101,0	110,0	171,0
164,0	146,0	154,0	140,0	139,0	156,0	209,0	144,0	319,0	205,0	141,0	317,0	187,0
105,0	211,0	145,0	143,0	193,0	116,0	107,0	186,0	199,0	175,0	363,0	64,0	77,0
86,0	242,0	191,0	304,0	107,0	76,0	125,0	157,0	130,0	265,0	191,0	140,0	211,0
79,0	38,0	115,0	153,0	120,0	237,0	220,0	194,0	258,0	180,0	143,0	254,0	105,0
77,0	93,0	253,0	177,0	341,0	297,0	247,0	393,0					

Proyecto 103
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 8{,}0 & 4{,}0 \\ 4{,}0 & 9{,}0 & 9{,}0 \\ 4{,}0 & 6{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

300,0	426,0	165,0	222,0	297,0	130,0	314,0	402,0	188,0	198,0	310,0	108,0	266,0
308,0	187,0	386,0	445,0	252,0	322,0	339,0	226,0	114,0	119,0	81,0	340,0	351,0
238,0	278,0	335,0	190,0	50,0	76,0	27,0	280,0	288,0	191,0	362,0	414,0	222,0
170,0	272,0	83,0	248,0	245,0	177,0	454,0	580,0	277,0	110,0	130,0	78,0	254,0
362,0	148,0	238,0	234,0	147,0	316,0	407,0	190,0	158,0	227,0	88,0	234,0	261,0
130,0	204,0	243,0	116,0	200,0	331,0	96,0	222,0	216,0	135,0	154,0	173,0	107,0
138,0	216,0	61,0	346,0	387,0	214,0	178,0	191,0	129,0	150,0	228,0	81,0	308,0
317,0	220,0	178,0	220,0	123,0	286,0	378,0	143,0					

Proyecto 104
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 6{,}0 & 5{,}0 \\ 3{,}0 & 1{,}0 & 8{,}0 \\ 8{,}0 & 3{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

68,0	75,0	147,0	190,0	70,0	129,0	264,0	165,0	289,0	275,0	206,0	265,0	56,0
39,0	92,0	130,0	125,0	268,0	171,0	227,0	247,0	155,0	169,0	279,0	218,0	185,0
246,0	272,0	194,0	273,0	192,0	177,0	276,0	174,0	204,0	345,0	225,0	199,0	296,0
119,0	61,0	114,0	218,0	185,0	246,0	324,0	260,0	343,0	135,0	184,0	251,0	192,0
248,0	303,0	225,0	174,0	231,0	192,0	248,0	303,0	189,0	163,0	200,0	119,0	61,0
114,0	182,0	50,0	129,0	153,0	163,0	237,0	208,0	223,0	331,0	276,0	186,0	305,0
168,0	197,0	287,0	66,0	78,0	89,0	264,0	275,0	378,0	176,0	170,0	283,0	140,0
83,0	212,0	192,0	171,0	221,0	366,0	322,0	507,0	211,0	253,0	291,0		

Proyecto 105
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 4{,}0 & 9{,}0 \\ 1{,}0 & 2{,}0 & 5{,}0 \\ 6{,}0 & 3{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

331,0	149,0	183,0	240,0	118,0	126,0	52,0	20,0	33,0	249,0	109,0	155,0	380,0
132,0	253,0	317,0	97,0	225,0	355,0	119,0	237,0	338,0	150,0	189,0	266,0	110,0
157,0	388,0	134,0	270,0	210,0	104,0	111,0	190,0	58,0	151,0	262,0	64,0	214,0
373,0	155,0	219,0	142,0	70,0	73,0	59,0	25,0	43,0	279,0	97,0	209,0	309,0
131,0	205,0	239,0	69,0	184,0	464,0	208,0	285,0	226,0	84,0	147,0	319,0	119,0
215,0	250,0	58,0	205,0	159,0	47,0	116,0	331,0	149,0	183,0	102,0	46,0	65,0
191,0	65,0	129,0	326,0	174,0	171,0	115,0	49,0	81,0	271,0	133,0	152,0	323,0
159,0	191,0	180,0	68,0	139,0	550,0	222,0	353,0					

Proyecto 106
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 9{,}0 & 4{,}0 \\ 8{,}0 & 8{,}0 & 9{,}0 \\ 3{,}0 & 2{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

327,0	475,0	261,0	157,0	297,0	201,0	193,0	249,0	94,0	215,0	302,0	155,0	397,0
480,0	211,0	172,0	161,0	46,0	274,0	321,0	112,0	310,0	353,0	120,0	447,0	532,0
216,0	313,0	368,0	169,0	348,0	459,0	244,0	309,0	435,0	242,0	246,0	379,0	228,0
79,0	149,0	102,0	240,0	319,0	160,0	469,0	565,0	232,0	82,0	81,0	26,0	241,0
273,0	93,0	229,0	281,0	102,0	152,0	216,0	106,0	361,0	432,0	193,0	255,0	291,0
105,0	261,0	327,0	158,0	258,0	383,0	194,0	119,0	190,0	117,0	273,0	443,0	259,0
119,0	141,0	62,0	147,0	217,0	111,0	285,0	403,0	230,0	142,0	167,0	76,0	288,0
345,0	144,0	297,0	399,0	191,0	287,0	485,0	286,0					

Proyecto 107
Nombre del alumno: _____
Matrícula: _____ · **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 9{,}0 & 8{,}0 \\ 6{,}0 & 8{,}0 & 9{,}0 \\ 1{,}0 & 5{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

269,0	251,0	169,0	368,0	275,0	100,0	329,0	277,0	149,0	261,0	247,0	173,0	188,0
197,0	160,0	534,0	449,0	242,0	465,0	408,0	245,0	356,0	339,0	240,0	432,0	359,0
188,0	252,0	269,0	224,0	297,0	307,0	245,0	333,0	323,0	233,0	379,0	350,0	231,0
493,0	463,0	317,0	426,0	353,0	182,0	408,0	334,0	168,0	283,0	225,0	103,0	375,0
348,0	235,0	142,0	120,0	66,0	415,0	390,0	267,0	506,0	426,0	230,0	215,0	183,0
103,0	228,0	225,0	168,0	521,0	471,0	301,0	366,0	347,0	242,0	149,0	116,0	49,0
513,0	477,0	321,0	426,0	375,0	226,0	224,0	229,0	180,0	554,0	504,0	326,0	232,0
234,0	180,0	513,0	477,0	321,0	457,0	429,0	293,0					

Proyecto 108
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 5{,}0 & 5{,}0 \\ 3{,}0 & 8{,}0 & 9{,}0 \\ 3{,}0 & 1{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

294,0	372,0	174,0	212,0	345,0	103,0	118,0	188,0	86,0	277,0	270,0	119,0	279,0
333,0	126,0	145,0	104,0	77,0	320,0	440,0	172,0	164,0	255,0	97,0	235,0	258,0
125,0	290,0	351,0	151,0	307,0	328,0	155,0	207,0	154,0	93,0	142,0	200,0	98,0
302,0	314,0	136,0	175,0	263,0	92,0	268,0	337,0	167,0	282,0	399,0	159,0	218,0
282,0	124,0	298,0	420,0	170,0	227,0	197,0	130,0	127,0	208,0	83,0	280,0	321,0
107,0	219,0	310,0	117,0	190,0	181,0	101,0	239,0	294,0	85,0	130,0	114,0	68,0
209,0	247,0	82,0	227,0	197,0	130,0	207,0	303,0	108,0	219,0	304,0	99,0	320,0
432,0	148,0	224,0	320,0	124,0	97,0	80,0	53,0	325,0	450,0	179,0		

Proyecto 109
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 2{,}0 & 3{,}0 \\ 6{,}0 & 4{,}0 & 7{,}0 \\ 3{,}0 & 8{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

179,0	265,0	260,0	166,0	222,0	207,0	69,0	89,0	127,0	187,0	177,0	156,0	77,0
149,0	259,0	221,0	257,0	313,0	153,0	187,0	260,0	111,0	103,0	92,0	86,0	172,0
206,0	183,0	219,0	285,0	229,0	335,0	373,0	145,0	267,0	327,0	69,0	109,0	185,0
162,0	208,0	284,0	159,0	247,0	299,0	283,0	315,0	273,0	87,0	153,0	225,0	79,0
153,0	198,0	262,0	266,0	217,0	300,0	344,0	361,0	131,0	177,0	243,0	227,0	289,0
326,0	307,0	331,0	359,0	59,0	117,0	171,0	151,0	197,0	196,0	233,0	197,0	145,0
150,0	192,0	204,0	139,0	255,0	303,0	167,0	189,0	213,0	155,0	133,0	86,0	144,0
212,0	259,0	283,0	305,0	313,0	353,0	465,0	513,0					

Proyecto 110
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 6{,}0 & 6{,}0 \\ 1{,}0 & 6{,}0 & 5{,}0 \\ 7{,}0 & 2{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

274,0	130,0	174,0	306,0	197,0	163,0	82,0	42,0	44,0	360,0	166,0	232,0	426,0
280,0	200,0	254,0	220,0	62,0	284,0	138,0	164,0	230,0	113,0	141,0	324,0	120,0
210,0	356,0	238,0	148,0	188,0	54,0	144,0	402,0	198,0	236,0	218,0	83,0	153,0
288,0	177,0	121,0	266,0	136,0	140,0	366,0	247,0	173,0	360,0	242,0	172,0	284,0
250,0	72,0	284,0	138,0	164,0	230,0	113,0	141,0	400,0	196,0	258,0	138,0	49,0
93,0	426,0	273,0	193,0	178,0	129,0	67,0	302,0	164,0	178,0	318,0	228,0	118,0
326,0	199,0	163,0	168,0	128,0	50,0	300,0	192,0	162,0	186,0	109,0	87,0	84,0
62,0	40,0	422,0	271,0	205,0	238,0	174,0	72,0					

Proyecto 111
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 5{,}0 & 1{,}0 \\ 8{,}0 & 6{,}0 & 3{,}0 \\ 7{,}0 & 5{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

114,0	267,0	186,0	90,0	198,0	144,0	125,0	288,0	215,0	91,0	152,0	97,0	145,0
217,0	175,0	168,0	356,0	282,0	154,0	294,0	244,0	56,0	103,0	86,0	157,0	318,0
265,0	148,0	226,0	178,0	21,0	41,0	27,0	118,0	273,0	226,0	125,0	366,0	287,0
61,0	145,0	91,0	115,0	235,0	199,0	191,0	407,0	305,0	63,0	86,0	69,0	115,0
208,0	145,0	61,0	273,0	223,0	129,0	286,0	213,0	64,0	136,0	94,0	44,0	258,0
206,0	100,0	200,0	142,0	122,0	231,0	176,0	151,0	285,0	241,0	111,0	251,0	207,0
43,0	163,0	127,0	165,0	382,0	321,0	80,0	159,0	134,0	61,0	167,0	139,0	152,0
218,0	158,0	31,0	144,0	103,0	151,0	285,0	241,0	131,0	393,0	293,0		

Proyecto 112
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 4,0 & 1,0 \\ 1,0 & 2,0 & 2,0 \\ 7,0 & 9,0 & 8,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

64,0	24,0	139,0	117,0	65,0	290,0	176,0	92,0	437,0	134,0	99,0	426,0	53,0
19,0	107,0	129,0	45,0	265,0	55,0	66,0	275,0	113,0	56,0	289,0	111,0	79,0
349,0	147,0	97,0	430,0	123,0	69,0	333,0	135,0	63,0	336,0	134,0	81,0	379,0
80,0	41,0	193,0	111,0	79,0	349,0	163,0	117,0	512,0	74,0	51,0	244,0	83,0
73,0	324,0	114,0	81,0	354,0	83,0	73,0	324,0	86,0	69,0	295,0	80,0	41,0
193,0	167,0	115,0	513,0	59,0	39,0	171,0	141,0	69,0	339,0	147,0	76,0	377,0
184,0	89,0	452,0	93,0	43,0	205,0	63,0	51,0	222,0	179,0	98,0	461,0	181,0
65,0	359,0	99,0	58,0	281,0	197,0	115,0	556,0					

Proyecto 113
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 2{,}0 & 3{,}0 \\ 1{,}0 & 7{,}0 & 9{,}0 \\ 1{,}0 & 4{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

237,0	362,0	317,0	149,0	240,0	237,0	252,0	57,0	48,0	177,0	202,0	175,0	237,0
348,0	267,0	48,0	136,0	82,0	270,0	120,0	84,0	278,0	148,0	100,0	324,0	323,0
242,0	111,0	334,0	253,0	142,0	426,0	348,0	164,0	381,0	324,0	150,0	332,0	296,0
68,0	127,0	124,0	154,0	242,0	200,0	354,0	335,0	254,0	28,0	66,0	42,0	209,0
120,0	81,0	260,0	85,0	64,0	158,0	114,0	102,0	147,0	234,0	153,0	156,0	81,0
72,0	181,0	199,0	139,0	276,0	129,0	120,0	82,0	130,0	88,0	140,0	187,0	184,0
293,0	178,0	175,0	214,0	179,0	164,0	127,0	282,0	267,0	54,0	148,0	112,0	198,0
222,0	168,0	287,0	354,0	315,0	276,0	343,0	316,0					

Proyecto 114
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 5{,}0 & 9{,}0 \\ 3{,}0 & 1{,}0 & 5{,}0 \\ 7{,}0 & 2{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

248,0	132,0	219,0	236,0	99,0	222,0	262,0	130,0	241,0	187,0	68,0	110,0	194,0
105,0	156,0	392,0	175,0	332,0	327,0	129,0	236,0	258,0	95,0	152,0	302,0	127,0
248,0	266,0	145,0	212,0	292,0	152,0	227,0	320,0	172,0	275,0	347,0	185,0	310,0
421,0	204,0	336,0	332,0	163,0	308,0	274,0	110,0	222,0	198,0	88,0	179,0	267,0
99,0	166,0	93,0	34,0	67,0	363,0	181,0	298,0	381,0	176,0	331,0	129,0	38,0
78,0	198,0	93,0	144,0	354,0	144,0	257,0	283,0	143,0	248,0	102,0	51,0	76,0
403,0	194,0	322,0	248,0	109,0	165,0	136,0	49,0	91,0	427,0	188,0	304,0	263,0
140,0	233,0	387,0	193,0	326,0	428,0	227,0	394,0					

Proyecto 115
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 4{,}0 & 7{,}0 \\ 5{,}0 & 4{,}0 & 5{,}0 \\ 7{,}0 & 1{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

377,0	266,0	304,0	233,0	189,0	149,0	161,0	114,0	136,0	323,0	232,0	237,0	320,0
239,0	226,0	192,0	124,0	165,0	385,0	286,0	286,0	201,0	151,0	151,0	294,0	206,0
233,0	353,0	255,0	269,0	377,0	266,0	293,0	255,0	172,0	203,0	193,0	134,0	164,0
355,0	256,0	262,0	204,0	157,0	144,0	353,0	245,0	293,0	345,0	255,0	261,0	273,0
196,0	214,0	367,0	270,0	280,0	304,0	199,0	262,0	162,0	120,0	127,0	303,0	233,0
197,0	261,0	196,0	191,0	243,0	165,0	199,0	325,0	253,0	215,0	274,0	190,0	225,0
83,0	62,0	64,0	365,0	266,0	281,0	321,0	226,0	256,0	271,0	185,0	223,0	242,0
203,0	142,0	255,0	190,0	173,0	423,0	284,0	364,0					

Proyecto 116
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 8{,}0 & 6{,}0 \\ 7{,}0 & 7{,}0 & 1{,}0 \\ 9{,}0 & 2{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

188,0	161,0	168,0	192,0	158,0	191,0	222,0	225,0	264,0	246,0	257,0	203,0	178,0
162,0	68,0	176,0	140,0	141,0	282,0	202,0	217,0	334,0	195,0	110,0	278,0	146,0
96,0	262,0	247,0	189,0	134,0	128,0	141,0	226,0	190,0	177,0	170,0	222,0	256,0
358,0	344,0	298,0	298,0	160,0	93,0	216,0	140,0	71,0	138,0	135,0	150,0	154,0
159,0	140,0	306,0	253,0	181,0	338,0	393,0	316,0	258,0	208,0	199,0	320,0	265,0
230,0	146,0	124,0	74,0	406,0	341,0	244,0	308,0	216,0	139,0	130,0	127,0	72,0
324,0	310,0	289,0	170,0	162,0	82,0	174,0	99,0	60,0	314,0	294,0	187,0	104,0
137,0	168,0	282,0	295,0	190,0	482,0	393,0	322,0					

Proyecto 117
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 3{,}0 & 9{,}0 \\ 7{,}0 & 5{,}0 & 8{,}0 \\ 5{,}0 & 6{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

318,0	305,0	93,0	261,0	256,0	91,0	78,0	108,0	104,0	174,0	209,0	157,0	132,0
182,0	172,0	240,0	308,0	262,0	162,0	227,0	223,0	99,0	122,0	97,0	207,0	199,0
60,0	198,0	264,0	240,0	375,0	391,0	186,0	309,0	311,0	124,0	90,0	134,0	142,0
189,0	251,0	226,0	270,0	290,0	154,0	348,0	366,0	184,0	153,0	183,0	132,0	174,0
179,0	79,0	285,0	310,0	177,0	351,0	406,0	275,0	165,0	213,0	182,0	300,0	341,0
219,0	318,0	394,0	314,0	123,0	139,0	86,0	222,0	229,0	105,0	192,0	232,0	178,0
207,0	225,0	126,0	300,0	296,0	106,0	105,0	123,0	84,0	225,0	267,0	192,0	294,0
325,0	193,0	345,0	368,0	195,0	153,0	147,0	44,0	426,0	426,0	170,0		

Proyecto 118
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 5{,}0 & 5{,}0 \\ 4{,}0 & 4{,}0 & 3{,}0 \\ 7{,}0 & 6{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

255,0	152,0	262,0	275,0	180,0	299,0	75,0	43,0	87,0	336,0	199,0	343,0	379,0
240,0	448,0	213,0	141,0	307,0	262,0	151,0	291,0	213,0	127,0	224,0	306,0	165,0
327,0	314,0	193,0	397,0	182,0	99,0	171,0	371,0	217,0	405,0	207,0	118,0	203,0
256,0	149,0	330,0	243,0	138,0	286,0	325,0	210,0	379,0	320,0	207,0	371,0	238,0
161,0	337,0	262,0	151,0	291,0	213,0	127,0	224,0	372,0	227,0	373,0	131,0	71,0
136,0	379,0	233,0	462,0	155,0	98,0	201,0	277,0	171,0	293,0	277,0	173,0	363,0
178,0	122,0	247,0	130,0	88,0	151,0	195,0	140,0	229,0	147,0	95,0	155,0	164,0
97,0	169,0	213,0	154,0	281,0	215,0	121,0	249,0	486,0	295,0	571,0		

Proyecto 119
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 8,0 & 2,0 \\ 8,0 & 7,0 & 1,0 \\ 7,0 & 3,0 & 9,0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

222,0	228,0	372,0	172,0	179,0	246,0	244,0	266,0	339,0	156,0	126,0	229,0	246,0
234,0	161,0	320,0	355,0	340,0	284,0	313,0	222,0	102,0	111,0	74,0	296,0	337,0
243,0	252,0	237,0	188,0	38,0	34,0	61,0	234,0	282,0	228,0	272,0	346,0	399,0
118,0	110,0	245,0	218,0	253,0	167,0	362,0	382,0	463,0	104,0	94,0	61,0	204,0
186,0	269,0	166,0	260,0	285,0	248,0	265,0	335,0	120,0	117,0	188,0	278,0	358,0
327,0	244,0	263,0	262,0	66,0	51,0	154,0	294,0	336,0	234,0	104,0	121,0	204,0
86,0	88,0	57,0	298,0	344,0	241,0	104,0	121,0	204,0	86,0	88,0	57,0	330,0
360,0	385,0	228,0	225,0	300,0	126,0	132,0	83,0	366,0	420,0	525,0		

Proyecto 120
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 8{,}0 & 4{,}0 \\ 3{,}0 & 3{,}0 & 2{,}0 \\ 5{,}0 & 8{,}0 & 1{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

94,0	53,0	82,0	241,0	94,0	226,0	334,0	147,0	298,0	309,0	128,0	243,0	81,0
41,0	78,0	187,0	103,0	172,0	158,0	75,0	77,0	192,0	101,0	153,0	245,0	107,0
188,0	317,0	134,0	260,0	231,0	111,0	186,0	219,0	120,0	174,0	265,0	123,0	211,0
153,0	65,0	141,0	245,0	107,0	188,0	365,0	156,0	284,0	145,0	78,0	91,0	193,0
96,0	112,0	255,0	108,0	201,0	193,0	96,0	112,0	152,0	63,0	143,0	217,0	97,0
157,0	245,0	98,0	242,0	176,0	87,0	131,0	242,0	121,0	182,0	293,0	138,0	212,0
223,0	103,0	208,0	110,0	63,0	101,0	221,0	100,0	179,0	323,0	156,0	296,0	275,0
127,0	260,0	181,0	96,0	100,0	363,0	162,0	309,0	173,0	85,0	86,0		

Proyecto 121
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5,0 & 2,0 & 5,0 \\ 9,0 & 7,0 & 5,0 \\ 6,0 & 9,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

197,0	250,0	216,0	138,0	178,0	171,0	32,0	49,0	42,0	145,0	256,0	259,0	240,0
373,0	302,0	205,0	338,0	267,0	227,0	340,0	261,0	202,0	259,0	222,0	162,0	219,0
182,0	242,0	430,0	381,0	120,0	161,0	159,0	118,0	273,0	266,0	172,0	360,0	311,0
227,0	304,0	252,0	82,0	99,0	92,0	33,0	86,0	98,0	169,0	376,0	376,0	179,0
362,0	380,0	153,0	307,0	272,0	268,0	473,0	486,0	140,0	221,0	189,0	195,0	346,0
319,0	166,0	339,0	284,0	103,0	179,0	145,0	197,0	250,0	216,0	65,0	156,0	174,0
153,0	243,0	256,0	84,0	239,0	278,0	149,0	232,0	210,0	208,0	325,0	289,0	154,0
341,0	356,0	112,0	189,0	137,0	204,0	399,0	408,0	330,0	563,0	532,0		

Proyecto 122
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 7{,}0 & 5{,}0 \\ 3{,}0 & 1{,}0 & 3{,}0 \\ 5{,}0 & 5{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

338,0	138,0	361,0	188,0	100,0	245,0	215,0	87,0	158,0	224,0	90,0	222,0	374,0
120,0	338,0	138,0	24,0	103,0	278,0	96,0	203,0	306,0	100,0	223,0	431,0	141,0
361,0	276,0	78,0	268,0	324,0	110,0	351,0	303,0	115,0	336,0	254,0	108,0	301,0
93,0	49,0	124,0	236,0	86,0	235,0	457,0	153,0	384,0	68,0	14,0	53,0	236,0
76,0	173,0	243,0	91,0	178,0	166,0	70,0	154,0	257,0	57,0	188,0	208,0	88,0
215,0	289,0	123,0	295,0	375,0	123,0	352,0	259,0	103,0	278,0	111,0	49,0	97,0
366,0	144,0	381,0	209,0	73,0	229,0	153,0	41,0	127,0	380,0	134,0	391,0	116,0
64,0	167,0	314,0	96,0	304,0	208,0	106,0	277,0					

Proyecto 123
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 2{,}0 & 9{,}0 \\ 4{,}0 & 5{,}0 & 1{,}0 \\ 7{,}0 & 6{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

221,0	72,0	261,0	143,0	174,0	276,0	207,0	118,0	287,0	125,0	113,0	208,0	185,0
36,0	198,0	281,0	218,0	438,0	218,0	203,0	368,0	175,0	152,0	286,0	203,0	188,0
342,0	257,0	44,0	270,0	269,0	68,0	301,0	293,0	80,0	333,0	308,0	103,0	366,0
349,0	159,0	450,0	257,0	158,0	366,0	174,0	186,0	314,0	135,0	122,0	225,0	178,0
163,0	298,0	56,0	67,0	107,0	308,0	127,0	386,0	227,0	212,0	384,0	161,0	181,0
298,0	297,0	84,0	340,0	91,0	71,0	142,0	177,0	159,0	294,0	349,0	172,0	461,0
198,0	102,0	265,0	84,0	94,0	155,0	83,0	156,0	206,0	197,0	98,0	261,0	270,0
137,0	360,0	325,0	154,0	424,0	266,0	109,0	333,0	399,0	212,0	540,0		

Proyecto 124
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 3{,}0 & 3{,}0 \\ 7{,}0 & 3{,}0 & 9{,}0 \\ 8{,}0 & 8{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

279,0	403,0	467,0	138,0	248,0	355,0	87,0	195,0	203,0	312,0	288,0	405,0	270,0
304,0	428,0	195,0	179,0	204,0	273,0	405,0	515,0	120,0	226,0	275,0	249,0	293,0
358,0	282,0	356,0	451,0	330,0	366,0	463,0	270,0	222,0	289,0	123,0	223,0	235,0
327,0	327,0	449,0	132,0	218,0	288,0	258,0	384,0	427,0	234,0	372,0	459,0	201,0
289,0	347,0	249,0	397,0	485,0	282,0	300,0	332,0	87,0	191,0	218,0	276,0	266,0
421,0	180,0	276,0	355,0	222,0	236,0	281,0	219,0	215,0	364,0	159,0	159,0	189,0
201,0	203,0	317,0	300,0	336,0	383,0	84,0	162,0	190,0	276,0	398,0	443,0	222,0
196,0	243,0	279,0	347,0	442,0	375,0	495,0	597,0					

Proyecto 125
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 4{,}0 & 8{,}0 \\ 8{,}0 & 5{,}0 & 8{,}0 \\ 9{,}0 & 7{,}0 & 3{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

372,0	387,0	294,0	260,0	281,0	315,0	332,0	351,0	391,0	340,0	353,0	361,0	268,0
273,0	152,0	388,0	393,0	287,0	204,0	209,0	182,0	200,0	218,0	264,0	436,0	463,0
486,0	224,0	242,0	273,0	300,0	311,0	335,0	256,0	278,0	289,0	348,0	375,0	363,0
228,0	243,0	276,0	236,0	255,0	223,0	300,0	303,0	291,0	120,0	134,0	152,0	228,0
229,0	145,0	316,0	317,0	286,0	260,0	275,0	222,0	256,0	276,0	260,0	352,0	356,0
316,0	156,0	161,0	104,0	396,0	401,0	296,0	292,0	301,0	273,0	224,0	236,0	276,0
236,0	251,0	195,0	316,0	317,0	286,0	260,0	275,0	222,0	256,0	276,0	260,0	492,0
507,0	429,0	260,0	261,0	211,0	348,0	363,0	255,0					

Proyecto 126
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 6{,}0 & 4{,}0 \\ 2{,}0 & 2{,}0 & 9{,}0 \\ 3{,}0 & 6{,}0 & 1{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

182,0	168,0	92,0	192,0	202,0	81,0	240,0	195,0	114,0	236,0	117,0	167,0	142,0
55,0	130,0	164,0	162,0	83,0	258,0	293,0	117,0	252,0	291,0	156,0	210,0	277,0
114,0	240,0	149,0	165,0	138,0	115,0	69,0	210,0	185,0	117,0	206,0	107,0	110,0
342,0	229,0	216,0	222,0	281,0	129,0	164,0	162,0	113,0	144,0	117,0	72,0	152,0
89,0	98,0	264,0	203,0	177,0	340,0	121,0	250,0	238,0	225,0	127,0	290,0	250,0
170,0	122,0	79,0	92,0	352,0	263,0	238,0	216,0	233,0	126,0	94,0	62,0	46,0
306,0	309,0	180,0	206,0	107,0	146,0	126,0	65,0	63,0	200,0	174,0	131,0	222,0
143,0	114,0	142,0	147,0	61,0	76,0	33,0	46,0	368,0	345,0	200,0		

Proyecto 127
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 5{,}0 & 8{,}0 \\ 6{,}0 & 9{,}0 & 6{,}0 \\ 2{,}0 & 3{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

293,0	243,0	189,0	243,0	207,0	149,0	103,0	153,0	55,0	189,0	219,0	85,0	181,0
279,0	113,0	289,0	387,0	149,0	215,0	321,0	111,0	110,0	132,0	48,0	197,0	177,0
139,0	249,0	351,0	129,0	376,0	378,0	234,0	306,0	300,0	208,0	131,0	213,0	75,0
239,0	339,0	129,0	281,0	303,0	177,0	339,0	321,0	183,0	180,0	234,0	114,0	177,0
183,0	121,0	283,0	279,0	141,0	379,0	435,0	201,0	204,0	282,0	114,0	323,0	369,0
183,0	365,0	459,0	181,0	138,0	168,0	92,0	217,0	207,0	129,0	205,0	231,0	81,0
213,0	225,0	123,0	291,0	273,0	199,0	122,0	156,0	80,0	252,0	306,0	138,0	305,0
327,0	169,0	352,0	378,0	186,0	315,0	321,0	215,0	391,0	369,0	239,0		

Proyecto 128
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2,0 & 8,0 & 7,0 \\ 1,0 & 3,0 & 9,0 \\ 7,0 & 5,0 & 3,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

188,0	101,0	227,0	274,0	132,0	252,0	61,0	56,0	60,0	241,0	129,0	299,0	392,0
279,0	321,0	303,0	286,0	158,0	201,0	163,0	217,0	163,0	97,0	187,0	183,0	171,0
249,0	335,0	301,0	247,0	85,0	43,0	161,0	287,0	210,0	314,0	124,0	64,0	184,0
253,0	270,0	190,0	198,0	193,0	191,0	344,0	222,0	282,0	337,0	213,0	279,0	343,0
301,0	183,0	201,0	163,0	217,0	163,0	97,0	187,0	281,0	119,0	341,0	75,0	63,0
109,0	385,0	321,0	307,0	180,0	158,0	122,0	233,0	124,0	248,0	319,0	294,0	214,0
256,0	211,0	141,0	150,0	83,0	117,0	415,0	330,0	274,0	281,0	205,0	247,0	179,0
189,0	103,0	344,0	222,0	282,0	167,0	162,0	170,0	265,0	291,0	281,0		

Proyecto 129
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 1{,}0 & 1{,}0 \\ 8{,}0 & 4{,}0 & 9{,}0 \\ 2{,}0 & 4{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

78,0	399,0	246,0	56,0	268,0	166,0	83,0	372,0	222,0	37,0	244,0	178,0	47,0
193,0	148,0	98,0	386,0	230,0	76,0	264,0	162,0	26,0	89,0	56,0	85,0	288,0
168,0	50,0	220,0	166,0	11,0	65,0	44,0	78,0	265,0	142,0	115,0	442,0	226,0
43,0	257,0	164,0	63,0	201,0	114,0	113,0	511,0	316,0	17,0	74,0	62,0	53,0
292,0	202,0	95,0	317,0	128,0	81,0	368,0	224,0	38,0	202,0	130,0	112,0	420,0
210,0	34,0	121,0	88,0	33,0	195,0	132,0	85,0	364,0	232,0	72,0	231,0	114,0
49,0	251,0	176,0	94,0	328,0	130,0	54,0	278,0	182,0	60,0	269,0	176,0	90,0
390,0	246,0	84,0	257,0	128,0	111,0	481,0	232,0					

Proyecto 130
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 3{,}0 & 7{,}0 \\ 3{,}0 & 7{,}0 & 2{,}0 \\ 5{,}0 & 1{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

157,0	57,0	87,0	125,0	202,0	52,0	291,0	255,0	145,0	244,0	236,0	120,0	100,0
57,0	53,0	290,0	119,0	159,0	222,0	95,0	123,0	286,0	121,0	157,0	232,0	179,0
119,0	259,0	242,0	128,0	276,0	159,0	147,0	357,0	132,0	198,0	291,0	187,0	153,0
115,0	121,0	55,0	232,0	179,0	119,0	321,0	272,0	162,0	246,0	82,0	138,0	285,0
116,0	158,0	216,0	192,0	108,0	285,0	116,0	158,0	89,0	82,0	44,0	198,0	81,0
109,0	255,0	190,0	132,0	183,0	151,0	93,0	115,0	121,0	55,0	133,0	206,0	56,0
234,0	115,0	127,0	329,0	157,0	179,0	351,0	198,0	188,0	303,0	204,0	158,0	175,0
82,0	96,0	363,0	276,0	186,0	272,0	201,0	141,0					

Proyecto 131
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

132

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 6{,}0 & 2{,}0 \\ 6{,}0 & 8{,}0 & 9{,}0 \\ 7{,}0 & 5{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

68,0	251,0	146,0	134,0	275,0	257,0	96,0	277,0	204,0	140,0	247,0	134,0	50,0
197,0	83,0	198,0	449,0	329,0	214,0	408,0	269,0	190,0	339,0	181,0	174,0	359,0
269,0	66,0	269,0	107,0	92,0	307,0	134,0	84,0	323,0	170,0	94,0	350,0	209,0
172,0	463,0	262,0	126,0	353,0	269,0	172,0	334,0	258,0	100,0	225,0	186,0	194,0
348,0	199,0	68,0	120,0	86,0	134,0	390,0	221,0	186,0	452,0	323,0	58,0	159,0
135,0	182,0	477,0	289,0	130,0	357,0	235,0	96,0	277,0	204,0	166,0	231,0	145,0
96,0	263,0	164,0	130,0	360,0	231,0	170,0	441,0	247,0	90,0	222,0	115,0	98,0
191,0	99,0	66,0	269,0	107,0	152,0	453,0	272,0					

Proyecto 132
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

133

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 2{,}0 & 1{,}0 \\ 6{,}0 & 1{,}0 & 4{,}0 \\ 4{,}0 & 6{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

40,0	157,0	178,0	39,0	187,0	190,0	48,0	225,0	216,0	59,0	146,0	210,0	44,0
42,0	138,0	37,0	139,0	166,0	57,0	233,0	272,0	70,0	157,0	296,0	56,0	150,0
254,0	61,0	150,0	226,0	29,0	123,0	128,0	49,0	165,0	208,0	40,0	186,0	162,0
82,0	242,0	318,0	61,0	147,0	268,0	47,0	89,0	186,0	30,0	129,0	132,0	36,0
107,0	136,0	69,0	164,0	266,0	84,0	205,0	284,0	55,0	193,0	240,0	70,0	215,0
290,0	34,0	62,0	122,0	74,0	145,0	244,0	57,0	134,0	202,0	31,0	124,0	134,0
81,0	187,0	272,0	41,0	139,0	180,0	56,0	197,0	246,0	70,0	201,0	304,0	46,0
102,0	202,0	56,0	152,0	226,0	86,0	293,0	372,0					

Proyecto 133
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

134

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 7{,}0 & 4{,}0 \\ 4{,}0 & 6{,}0 & 6{,}0 \\ 1{,}0 & 4{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

139,0	216,0	178,0	113,0	178,0	137,0	105,0	104,0	63,0	115,0	152,0	74,0	211,0
196,0	139,0	247,0	268,0	157,0	217,0	216,0	126,0	70,0	90,0	42,0	119,0	158,0
142,0	231,0	240,0	141,0	236,0	306,0	233,0	202,0	254,0	215,0	157,0	144,0	93,0
229,0	234,0	144,0	199,0	240,0	183,0	165,0	252,0	161,0	168,0	174,0	129,0	127,0
152,0	128,0	137,0	210,0	119,0	257,0	318,0	195,0	192,0	198,0	127,0	229,0	276,0
184,0	275,0	320,0	179,0	122,0	130,0	103,0	119,0	168,0	122,0	107,0	156,0	61,0
135,0	174,0	120,0	181,0	236,0	203,0	89,0	96,0	69,0	85,0	128,0	80,0	243,0
280,0	239,0	179,0	232,0	202,0	263,0	274,0	217,0	154,0	218,0	195,0		

Proyecto 134
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 4{,}0 & 5{,}0 \\ 1{,}0 & 7{,}0 & 2{,}0 \\ 8{,}0 & 9{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

260,0	133,0	315,0	263,0	212,0	383,0	78,0	29,0	83,0	344,0	170,0	412,0	370,0
247,0	487,0	200,0	153,0	269,0	272,0	108,0	298,0	217,0	110,0	261,0	330,0	78,0
318,0	312,0	172,0	374,0	196,0	56,0	202,0	382,0	169,0	435,0	217,0	86,0	243,0
263,0	101,0	276,0	254,0	87,0	263,0	313,0	232,0	433,0	308,0	230,0	428,0	220,0
188,0	314,0	272,0	108,0	298,0	217,0	110,0	261,0	374,0	220,0	480,0	141,0	36,0
139,0	377,0	212,0	459,0	151,0	96,0	191,0	276,0	169,0	357,0	272,0	161,0	333,0
302,0	120,0	328,0	265,0	81,0	270,0	137,0	198,0	271,0	142,0	109,0	203,0	168,0
82,0	200,0	187,0	218,0	321,0	226,0	73,0	231,0	448,0	190,0	496,0		

Proyecto 135
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 4{,}0 & 9{,}0 \\ 7{,}0 & 2{,}0 & 1{,}0 \\ 1{,}0 & 7{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

138,0	104,0	53,0	160,0	66,0	230,0	314,0	164,0	299,0	313,0	83,0	366,0	88,0
72,0	45,0	250,0	202,0	95,0	277,0	51,0	253,0	277,0	163,0	159,0	278,0	90,0
283,0	314,0	108,0	346,0	288,0	144,0	219,0	336,0	210,0	168,0	317,0	141,0	269,0
127,0	67,0	135,0	278,0	90,0	283,0	394,0	120,0	424,0	257,0	111,0	164,0	326,0
100,0	260,0	267,0	81,0	294,0	326,0	100,0	260,0	115,0	61,0	133,0	271,0	83,0
263,0	278,0	104,0	314,0	294,0	140,0	195,0	100,0	22,0	94,0	404,0	160,0	329,0
190,0	60,0	179,0	140,0	42,0	164,0	268,0	50,0	226,0	319,0	163,0	262,0	212,0
50,0	190,0	339,0	173,0	316,0	256,0	128,0	163,0	454,0	220,0	266,0		

Proyecto 136
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 4{,}0 & 7{,}0 \\ 1{,}0 & 3{,}0 & 6{,}0 \\ 6{,}0 & 6{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

305,0	221,0	417,0	211,0	161,0	279,0	127,0	42,0	189,0	186,0	124,0	258,0	280,0
192,0	396,0	83,0	61,0	123,0	163,0	69,0	243,0	179,0	81,0	267,0	296,0	179,0
426,0	224,0	178,0	312,0	297,0	241,0	405,0	285,0	224,0	387,0	257,0	203,0	345,0
107,0	84,0	141,0	197,0	141,0	273,0	315,0	188,0	453,0	43,0	31,0	63,0	139,0
65,0	207,0	143,0	54,0	213,0	128,0	74,0	180,0	172,0	114,0	252,0	107,0	54,0
153,0	171,0	104,0	249,0	196,0	102,0	276,0	214,0	160,0	294,0	207,0	147,0	291,0
224,0	126,0	312,0	190,0	117,0	264,0	234,0	187,0	312,0	298,0	183,0	420,0	107,0
54,0	153,0	325,0	226,0	447,0	119,0	58,0	177,0	319,0	233,0	435,0		

Proyecto 137
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 1{,}0 & 8{,}0 \\ 3{,}0 & 8{,}0 & 1{,}0 \\ 8{,}0 & 5{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

237,0	63,0	253,0	210,0	186,0	289,0	249,0	113,0	289,0	99,0	172,0	180,0	174,0
36,0	181,0	328,0	248,0	431,0	221,0	270,0	343,0	138,0	232,0	247,0	238,0	224,0
335,0	238,0	44,0	245,0	249,0	79,0	273,0	301,0	71,0	317,0	335,0	88,0	357,0
351,0	186,0	422,0	316,0	152,0	371,0	208,0	226,0	308,0	175,0	131,0	229,0	151,0
240,0	263,0	60,0	89,0	101,0	315,0	140,0	365,0	286,0	101,0	317,0	208,0	159,0
275,0	187,0	200,0	276,0	280,0	242,0	383,0	208,0	219,0	305,0	131,0	50,0	148,0
305,0	289,0	431,0	244,0	152,0	305,0	117,0	48,0	133,0	339,0	216,0	426,0	187,0
120,0	236,0	225,0	166,0	294,0	436,0	230,0	523,0					

Proyecto 138
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

139

Matriz llave:

$$K = \begin{pmatrix} 6,0 & 7,0 & 3,0 \\ 6,0 & 1,0 & 5,0 \\ 5,0 & 9,0 & 9,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

258,0	258,0	419,0	216,0	128,0	370,0	82,0	114,0	195,0	303,0	205,0	342,0	297,0
195,0	392,0	139,0	141,0	145,0	304,0	244,0	489,0	144,0	128,0	272,0	225,0	199,0
307,0	282,0	230,0	406,0	305,0	251,0	396,0	221,0	175,0	216,0	106,0	138,0	215,0
322,0	226,0	387,0	169,0	123,0	286,0	224,0	248,0	378,0	258,0	222,0	438,0	198,0
182,0	317,0	270,0	238,0	461,0	205,0	223,0	252,0	101,0	107,0	217,0	324,0	172,0
388,0	209,0	163,0	342,0	182,0	170,0	226,0	276,0	116,0	322,0	237,0	139,0	287,0
127,0	113,0	151,0	322,0	226,0	387,0	261,0	159,0	362,0	79,0	85,0	176,0	303,0
145,0	351,0	154,0	50,0	221,0	217,0	211,0	252,0	256,0	308,0	405,0		

Proyecto 139
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8,0 & 8,0 & 7,0 \\ 1,0 & 8,0 & 6,0 \\ 1,0 & 3,0 & 7,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

266,0	140,0	129,0	286,0	135,0	148,0	345,0	141,0	141,0	323,0	192,0	107,0	191,0
169,0	70,0	242,0	137,0	126,0	389,0	222,0	224,0	381,0	319,0	251,0	325,0	263,0
230,0	335,0	214,0	133,0	199,0	92,0	86,0	305,0	178,0	148,0	283,0	89,0	74,0
481,0	277,0	192,0	341,0	286,0	238,0	242,0	207,0	146,0	207,0	93,0	87,0	211,0
115,0	75,0	377,0	264,0	179,0	455,0	251,0	117,0	349,0	204,0	178,0	420,0	260,0
205,0	171,0	131,0	76,0	396,0	259,0	128,0	191,0	127,0	58,0	197,0	103,0	61,0
252,0	241,0	110,0	179,0	69,0	59,0	307,0	204,0	109,0	303,0	105,0	99,0	173,0
135,0	68,0	213,0	131,0	145,0	311,0	113,0	102,0	539,0	321,0	275,0		

Proyecto 140
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 5{,}0 & 2{,}0 \\ 6{,}0 & 6{,}0 & 7{,}0 \\ 2{,}0 & 8{,}0 & 8{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

143,0	238,0	192,0	188,0	280,0	278,0	35,0	77,0	66,0	186,0	311,0	246,0	229,0
410,0	412,0	127,0	279,0	330,0	128,0	259,0	214,0	118,0	203,0	168,0	126,0	285,0
198,0	168,0	357,0	362,0	84,0	151,0	86,0	191,0	363,0	302,0	106,0	182,0	126,0
115,0	291,0	280,0	109,0	252,0	216,0	208,0	350,0	358,0	206,0	343,0	350,0	152,0
309,0	370,0	128,0	259,0	214,0	118,0	203,0	168,0	224,0	343,0	282,0	56,0	119,0
80,0	208,0	417,0	412,0	88,0	182,0	194,0	167,0	269,0	238,0	151,0	327,0	346,0
119,0	228,0	274,0	93,0	142,0	154,0	188,0	325,0	378,0	162,0	308,0	330,0	82,0
115,0	122,0	185,0	342,0	278,0	103,0	195,0	234,0	264,0	515,0	486,0		

Proyecto 141
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 5{,}0 & 4{,}0 \\ 7{,}0 & 5{,}0 & 4{,}0 \\ 8{,}0 & 7{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

105,0	119,0	139,0	161,0	162,0	222,0	267,0	281,0	361,0	229,0	230,0	307,0	78,0
87,0	105,0	202,0	229,0	269,0	145,0	147,0	186,0	197,0	217,0	260,0	196,0	201,0
261,0	241,0	246,0	324,0	210,0	225,0	279,0	237,0	264,0	312,0	230,0	243,0	306,0
116,0	121,0	158,0	196,0	201,0	261,0	283,0	288,0	378,0	155,0	168,0	201,0	187,0
196,0	242,0	195,0	198,0	261,0	187,0	196,0	242,0	158,0	159,0	210,0	116,0	121,0
158,0	292,0	301,0	389,0	94,0	95,0	127,0	216,0	231,0	291,0	293,0	313,0	386,0
211,0	230,0	280,0	190,0	211,0	257,0	171,0	175,0	227,0	293,0	320,0	394,0	231,0
244,0	311,0	86,0	87,0	111,0	247,0	265,0	338,0	353,0	380,0	466,0		

Proyecto 142
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

143

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 6{,}0 & 1{,}0 \\ 8{,}0 & 6{,}0 & 9{,}0 \\ 5{,}0 & 4{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

105,0	345,0	307,0	75,0	253,0	230,0	27,0	57,0	46,0	158,0	288,0	231,0	211,0
417,0	326,0	204,0	354,0	263,0	186,0	384,0	301,0	111,0	353,0	312,0	103,0	281,0
240,0	273,0	447,0	334,0	72,0	224,0	202,0	205,0	243,0	160,0	259,0	321,0	208,0
141,0	393,0	337,0	37,0	147,0	136,0	67,0	79,0	55,0	275,0	351,0	243,0	247,0
375,0	285,0	214,0	288,0	197,0	291,0	537,0	434,0	126,0	250,0	198,0	218,0	368,0
281,0	241,0	303,0	196,0	113,0	181,0	131,0	105,0	345,0	307,0	120,0	266,0	231,0
118,0	160,0	117,0	237,0	471,0	392,0	181,0	323,0	248,0	199,0	249,0	162,0	132,0
284,0	242,0	291,0	417,0	296,0	341,0	627,0	496,0					

Proyecto 143
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 3{,}0 & 1{,}0 \\ 2{,}0 & 9{,}0 & 5{,}0 \\ 5{,}0 & 3{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

170,0	298,0	196,0	84,0	150,0	118,0	199,0	86,0	147,0	132,0	177,0	134,0	202,0
353,0	204,0	62,0	169,0	62,0	226,0	167,0	174,0	238,0	203,0	186,0	275,0	355,0
247,0	104,0	325,0	134,0	112,0	371,0	164,0	119,0	316,0	163,0	98,0	253,0	142,0
37,0	80,0	57,0	120,0	219,0	132,0	297,0	366,0	265,0	32,0	79,0	32,0	180,0
162,0	142,0	211,0	122,0	159,0	118,0	104,0	106,0	145,0	266,0	129,0	171,0	219,0
149,0	119,0	109,0	109,0	264,0	300,0	214,0	120,0	162,0	126,0	173,0	217,0	177,0
173,0	274,0	149,0	120,0	162,0	126,0	173,0	217,0	177,0	191,0	364,0	203,0	140,0
289,0	162,0	75,0	132,0	67,0	196,0	77,0	144,0	177,0	228,0	197,0		

Proyecto 144
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

145

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 6{,}0 & 9{,}0 \\ 9{,}0 & 1{,}0 & 8{,}0 \\ 6{,}0 & 1{,}0 & 9{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

261,0 261,0 244,0 276,0 264,0 184,0 287,0 289,0 242,0 208,0 101,0 107,0 198,0
180,0 190,0 438,0 382,0 316,0 368,0 249,0 219,0 286,0 140,0 150,0 342,0 280,0
226,0 270,0 244,0 262,0 301,0 257,0 272,0 333,0 325,0 316,0 366,0 371,0 343,0
450,0 381,0 365,0 366,0 370,0 304,0 314,0 248,0 194,0 225,0 211,0 162,0 298,0
159,0 159,0 107,0 70,0   57,0   386,0 343,0 327,0 384,0 334,0 262,0 298,0 231,0
179,0 340,0 334,0 322,0 304,0 284,0 240,0 228,0 209,0 147,0 280,0 195,0 201,0
303,0 340,0 271,0 301,0 222,0 219,0 300,0 205,0 191,0 303,0 340,0 271,0 301,0
222,0 219,0 300,0 205,0 191,0 456,0 476,0 424,0

Proyecto 145
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 8{,}0 & 1{,}0 \\ 8{,}0 & 9{,}0 & 6{,}0 \\ 4{,}0 & 3{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

156,0	395,0	157,0	193,0	319,0	109,0	36,0	147,0	53,0	230,0	408,0	172,0	237,0
413,0	163,0	72,0	193,0	91,0	224,0	453,0	171,0	103,0	227,0	81,0	146,0	325,0
135,0	199,0	409,0	163,0	208,0	432,0	180,0	146,0	294,0	134,0	48,0	179,0	69,0
242,0	441,0	183,0	135,0	253,0	91,0	121,0	351,0	141,0	183,0	393,0	147,0	130,0
299,0	117,0	188,0	413,0	155,0	101,0	297,0	135,0	64,0	169,0	59,0	281,0	433,0
171,0	158,0	312,0	116,0	109,0	259,0	113,0	259,0	361,0	139,0	197,0	320,0	128,0
79,0	178,0	78,0	105,0	321,0	143,0	108,0	273,0	115,0	110,0	269,0	95,0	130,0
276,0	128,0	116,0	311,0	129,0	310,0	615,0	241,0					

Proyecto 146
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5,0 & 5,0 & 4,0 \\ 1,0 & 9,0 & 3,0 \\ 6,0 & 5,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

173,0	102,0	212,0	150,0	82,0	183,0	94,0	125,0	100,0	157,0	110,0	180,0	160,0
259,0	166,0	250,0	277,0	274,0	199,0	258,0	212,0	94,0	69,0	107,0	115,0	107,0
137,0	222,0	267,0	240,0	253,0	222,0	295,0	193,0	194,0	225,0	124,0	195,0	128,0
211,0	267,0	227,0	196,0	201,0	224,0	236,0	129,0	282,0	141,0	192,0	153,0	115,0
128,0	132,0	208,0	108,0	247,0	296,0	258,0	337,0	175,0	222,0	189,0	245,0	234,0
278,0	308,0	293,0	344,0	101,0	136,0	111,0	145,0	102,0	172,0	174,0	93,0	202,0
153,0	129,0	177,0	178,0	167,0	210,0	80,0	99,0	88,0	121,0	68,0	144,0	208,0
253,0	236,0	163,0	168,0	182,0	326,0	249,0	382,0					

Proyecto 147
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

148

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 6{,}0 & 7{,}0 \\ 5{,}0 & 9{,}0 & 2{,}0 \\ 3{,}0 & 9{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

258,0	243,0	223,0	295,0	326,0	316,0	82,0	53,0	68,0	338,0	316,0	287,0	428,0
373,0	437,0	280,0	185,0	318,0	278,0	202,0	229,0	219,0	198,0	191,0	312,0	192,0
213,0	370,0	254,0	363,0	170,0	142,0	109,0	390,0	309,0	330,0	201,0	180,0	152,0
303,0	159,0	270,0	268,0	161,0	219,0	365,0	346,0	386,0	358,0	344,0	379,0	310,0
230,0	363,0	278,0	202,0	229,0	219,0	198,0	191,0	372,0	390,0	337,0	131,0	88,0
89,0	435,0	324,0	423,0	187,0	134,0	194,0	288,0	285,0	272,0	336,0	225,0	342,0
320,0	214,0	271,0	261,0	171,0	196,0	281,0	280,0	358,0	237,0	231,0	210,0	254,0
226,0	291,0	276,0	189,0	180,0	482,0	328,0	419,0					

Proyecto 148
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 6{,}0 & 7{,}0 \\ 1{,}0 & 2{,}0 & 8{,}0 \\ 5{,}0 & 5{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

90,0	48,0	99,0	201,0	95,0	170,0	302,0	164,0	277,0	320,0	231,0	272,0	67,0
25,0	71,0	167,0	75,0	185,0	227,0	228,0	197,0	201,0	134,0	203,0	261,0	193,0
229,0	315,0	211,0	274,0	237,0	159,0	225,0	231,0	153,0	240,0	274,0	189,0	253,0
132,0	65,0	119,0	261,0	193,0	229,0	383,0	279,0	332,0	184,0	159,0	178,0	255,0
235,0	232,0	264,0	189,0	228,0	255,0	235,0	232,0	127,0	58,0	113,0	244,0	193,0
215,0	315,0	211,0	274,0	290,0	207,0	260,0	105,0	39,0	96,0	198,0	125,0	212,0
244,0	181,0	218,0	247,0	153,0	223,0	229,0	77,0	216,0	207,0	92,0	200,0	143,0
94,0	144,0	273,0	88,0	271,0	387,0	273,0	372,0	273,0	254,0	239,0		

Proyecto 149
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 4{,}0 & 7{,}0 \\ 6{,}0 & 6{,}0 & 5{,}0 \\ 6{,}0 & 3{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

217,0	213,0	129,0	173,0	159,0	84,0	31,0	39,0	27,0	176,0	214,0	127,0	207,0
287,0	215,0	158,0	252,0	201,0	184,0	258,0	201,0	219,0	219,0	135,0	163,0	179,0
119,0	223,0	333,0	240,0	154,0	144,0	75,0	113,0	209,0	149,0	125,0	263,0	212,0
229,0	249,0	165,0	101,0	89,0	47,0	47,0	71,0	41,0	179,0	295,0	199,0	223,0
299,0	179,0	126,0	230,0	176,0	335,0	399,0	231,0	132,0	174,0	123,0	196,0	274,0
187,0	113,0	245,0	203,0	79,0	133,0	106,0	217,0	213,0	129,0	207,0	263,0	179,0
151,0	215,0	161,0	117,0	173,0	89,0	139,0	229,0	160,0	107,0	153,0	114,0	265,0
393,0	267,0	343,0	447,0	291,0	146,0	160,0	91,0	357,0	457,0	295,0		

Proyecto 150
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

151

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 3{,}0 & 5{,}0 \\ 8{,}0 & 4{,}0 & 4{,}0 \\ 5{,}0 & 6{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

208,0	280,0	187,0	144,0	168,0	71,0	68,0	232,0	154,0	123,0	196,0	133,0	191,0
292,0	253,0	61,0	84,0	114,0	95,0	268,0	208,0	107,0	284,0	232,0	193,0	364,0
304,0	163,0	180,0	183,0	215,0	220,0	188,0	202,0	224,0	166,0	181,0	196,0	124,0
74,0	80,0	34,0	135,0	188,0	144,0	204,0	392,0	320,0	31,0	44,0	54,0	84,0
216,0	179,0	80,0	248,0	178,0	80,0	160,0	102,0	119,0	196,0	211,0	65,0	132,0
130,0	68,0	152,0	122,0	163,0	180,0	183,0	96,0	216,0	183,0	142,0	176,0	154,0
111,0	268,0	168,0	96,0	168,0	89,0	32,0	88,0	64,0	156,0	328,0	258,0	123,0
252,0	220,0	164,0	216,0	98,0	204,0	280,0	163,0					

Proyecto 151
Nombre del alumno: _____

Matrícula: _____　　**Grupo:** _____　**Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7,0 & 5,0 & 6,0 \\ 3,0 & 5,0 & 4,0 \\ 8,0 & 1,0 & 3,0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

203,0	117,0	154,0	260,0	150,0	232,0	243,0	137,0	204,0	161,0	139,0	55,0	140,0
90,0	82,0	374,0	236,0	280,0	305,0	225,0	175,0	220,0	190,0	74,0	296,0	194,0
214,0	188,0	122,0	106,0	215,0	145,0	118,0	251,0	149,0	178,0	287,0	163,0	223,0
349,0	231,0	221,0	314,0	176,0	268,0	276,0	184,0	198,0	201,0	119,0	168,0	235,0
195,0	95,0	92,0	68,0	55,0	299,0	191,0	199,0	290,0	150,0	265,0	235,0	135,0
191,0	229,0	161,0	119,0	290,0	150,0	265,0	235,0	135,0	191,0	215,0	145,0	118,0
195,0	155,0	78,0	129,0	101,0	66,0	266,0	214,0	115,0	219,0	141,0	168,0	220,0
170,0	104,0	338,0	212,0	262,0	263,0	177,0	187,0	270,0	160,0	192,0		

Proyecto 152
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

153

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 2{,}0 & 5{,}0 \\ 5{,}0 & 1{,}0 & 4{,}0 \\ 4{,}0 & 8{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

172,0	212,0	364,0	139,0	107,0	328,0	100,0	92,0	172,0	88,0	173,0	292,0	121,0
164,0	340,0	42,0	117,0	120,0	188,0	202,0	428,0	117,0	105,0	240,0	108,0	165,0
264,0	145,0	191,0	352,0	130,0	209,0	340,0	48,0	147,0	180,0	104,0	112,0	188,0
110,0	190,0	332,0	111,0	102,0	252,0	163,0	203,0	328,0	177,0	183,0	384,0	126,0
150,0	276,0	188,0	196,0	404,0	89,0	184,0	212,0	102,0	87,0	192,0	99,0	147,0
336,0	132,0	135,0	300,0	75,0	141,0	192,0	143,0	157,0	392,0	116,0	157,0	248,0
52,0	44,0	100,0	178,0	197,0	388,0	123,0	93,0	276,0	53,0	55,0	164,0	124,0
104,0	340,0	131,0	97,0	308,0	206,0	187,0	476,0					

Proyecto 153
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7,0 & 3,0 & 1,0 \\ 6,0 & 5,0 & 3,0 \\ 9,0 & 1,0 & 3,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

156,0	228,0	204,0	187,0	222,0	189,0	251,0	272,0	277,0	237,0	254,0	283,0	70,0
130,0	122,0	175,0	220,0	257,0	116,0	133,0	152,0	160,0	183,0	156,0	296,0	345,0
324,0	163,0	192,0	165,0	227,0	232,0	269,0	159,0	209,0	157,0	180,0	222,0	156,0
171,0	201,0	177,0	119,0	131,0	157,0	282,0	348,0	318,0	123,0	182,0	157,0	91,0
89,0	121,0	186,0	261,0	234,0	173,0	198,0	219,0	184,0	189,0	204,0	91,0	153,0
105,0	207,0	204,0	273,0	80,0	109,0	68,0	85,0	116,0	139,0	210,0	209,0	274,0
114,0	128,0	166,0	73,0	72,0	87,0	207,0	204,0	273,0	80,0	109,0	68,0	85,0
116,0	139,0	255,0	284,0	289,0	221,0	254,0	331,0					

Proyecto 154
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

155

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 1{,}0 & 5{,}0 \\ 4{,}0 & 8{,}0 & 3{,}0 \\ 2{,}0 & 5{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

187,0	146,0	99,0	224,0	138,0	97,0	267,0	177,0	114,0	169,0	231,0	141,0	46,0
175,0	109,0	166,0	134,0	93,0	280,0	201,0	146,0	189,0	253,0	186,0	182,0	197,0
151,0	175,0	235,0	149,0	146,0	107,0	70,0	196,0	181,0	122,0	218,0	155,0	89,0
284,0	313,0	199,0	178,0	217,0	164,0	106,0	174,0	123,0	153,0	111,0	72,0	125,0
139,0	86,0	193,0	261,0	173,0	235,0	335,0	196,0	230,0	201,0	138,0	255,0	260,0
175,0	72,0	131,0	85,0	180,0	304,0	185,0	82,0	151,0	91,0	115,0	133,0	80,0
39,0	223,0	140,0	155,0	223,0	137,0	127,0	103,0	63,0	253,0	287,0	176,0	172,0
256,0	167,0	86,0	81,0	67,0	278,0	363,0	246,0	359,0	395,0	266,0		

Proyecto 155
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 2{,}0 & 7{,}0 \\ 3{,}0 & 3{,}0 & 1{,}0 \\ 2{,}0 & 1{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

98,0	109,0	83,0	112,0	130,0	85,0	49,0	26,0	47,0	127,0	143,0	108,0	230,0
155,0	203,0	219,0	72,0	205,0	147,0	97,0	138,0	91,0	89,0	79,0	165,0	105,0
162,0	245,0	111,0	230,0	55,0	73,0	50,0	191,0	144,0	175,0	70,0	86,0	61,0
223,0	78,0	218,0	168,0	81,0	163,0	182,0	140,0	155,0	175,0	139,0	148,0	229,0
87,0	210,0	147,0	97,0	138,0	91,0	89,0	79,0	119,0	169,0	92,0	63,0	47,0
61,0	265,0	141,0	245,0	126,0	56,0	117,0	113,0	122,0	93,0	235,0	96,0	221,0
97,0	98,0	81,0	59,0	60,0	58,0	146,0	86,0	131,0	155,0	147,0	136,0	113,0
122,0	93,0	217,0	69,0	216,0	261,0	116,0	252,0					

Proyecto 156
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3,0 & 2,0 & 7,0 \\ 6,0 & 7,0 & 2,0 \\ 4,0 & 9,0 & 9,0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

72,0	99,0	101,0	92,0	205,0	292,0	180,0	297,0	407,0	211,0	239,0	445,0	42,0
84,0	81,0	124,0	200,0	189,0	205,0	101,0	296,0	161,0	181,0	242,0	184,0	194,0
353,0	202,0	257,0	434,0	174,0	204,0	303,0	192,0	213,0	270,0	197,0	226,0	358,0
71,0	136,0	182,0	184,0	194,0	353,0	262,0	287,0	524,0	167,0	121,0	223,0	226,0
143,0	324,0	177,0	201,0	363,0	226,0	143,0	324,0	161,0	154,0	310,0	71,0	136,0
182,0	268,0	290,0	513,0	208,0	215,0	328,0	161,0	181,0	242,0	190,0	233,0	418,0
200,0	187,0	342,0	66,0	87,0	93,0	270,0	270,0	465,0	112,0	212,0	249,0	77,0
121,0	108,0	155,0	187,0	297,0	286,0	227,0	378,0					

Proyecto 157
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

158

Matriz llave:

$$K = \begin{pmatrix} 8,0 & 5,0 & 9,0 \\ 5,0 & 2,0 & 1,0 \\ 5,0 & 8,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

344,0	89,0	122,0	249,0	54,0	99,0	56,0	20,0	29,0	273,0	89,0	193,0	412,0
164,0	213,0	349,0	157,0	199,0	383,0	155,0	179,0	352,0	94,0	127,0	280,0	86,0
111,0	431,0	182,0	293,0	219,0	48,0	96,0	224,0	114,0	229,0	305,0	168,0	265,0
392,0	119,0	152,0	146,0	30,0	49,0	70,0	29,0	84,0	324,0	149,0	316,0	348,0
127,0	302,0	274,0	137,0	225,0	508,0	160,0	361,0	245,0	92,0	134,0	353,0	139,0
243,0	290,0	162,0	241,0	177,0	83,0	112,0	344,0	89,0	122,0	368,0	132,0	205,0
302,0	123,0	166,0	170,0	62,0	227,0	223,0	69,0	113,0	78,0	34,0	89,0	458,0
168,0	349,0	347,0	103,0	237,0	114,0	52,0	131,0	482,0	166,0	201,0		

Proyecto 158
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 6{,}0 & 4{,}0 \\ 7{,}0 & 4{,}0 & 9{,}0 \\ 8{,}0 & 6{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

296,0	401,0	256,0	162,0	285,0	120,0	211,0	210,0	236,0	201,0	253,0	186,0	331,0
357,0	314,0	119,0	88,0	118,0	265,0	246,0	290,0	289,0	262,0	314,0	392,0	398,0
394,0	233,0	259,0	202,0	271,0	354,0	218,0	257,0	354,0	208,0	215,0	326,0	166,0
79,0	142,0	56,0	207,0	254,0	186,0	417,0	428,0	420,0	59,0	48,0	58,0	222,0
201,0	240,0	235,0	226,0	260,0	154,0	186,0	152,0	285,0	306,0	264,0	214,0	294,0
194,0	61,0	100,0	44,0	297,0	404,0	258,0	280,0	319,0	266,0	127,0	212,0	92,0
343,0	384,0	320,0	257,0	319,0	226,0	117,0	96,0	120,0	261,0	294,0	270,0	320,0
341,0	304,0	205,0	206,0	230,0	279,0	414,0	240,0					

Proyecto 159
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 3{,}0 & 5{,}0 \\ 2{,}0 & 7{,}0 & 8{,}0 \\ 8{,}0 & 8{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

134,0	183,0	142,0	125,0	153,0	322,0	140,0	179,0	226,0	108,0	214,0	186,0	107,0
165,0	70,0	213,0	307,0	398,0	183,0	313,0	352,0	149,0	295,0	250,0	165,0	247,0
338,0	147,0	229,0	86,0	162,0	259,0	126,0	174,0	247,0	158,0	187,0	251,0	204,0
232,0	360,0	290,0	177,0	223,0	302,0	150,0	228,0	332,0	106,0	139,0	226,0	153,0
293,0	272,0	52,0	89,0	116,0	199,0	299,0	236,0	168,0	202,0	278,0	94,0	153,0
92,0	210,0	291,0	254,0	118,0	182,0	258,0	72,0	67,0	158,0	142,0	235,0	220,0
168,0	202,0	278,0	94,0	153,0	92,0	210,0	291,0	254,0	179,0	253,0	262,0	140,0
179,0	226,0	209,0	391,0	274,0	301,0	461,0	474,0					

Proyecto 160
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 8{,}0 & 3{,}0 \\ 5{,}0 & 5{,}0 & 3{,}0 \\ 5{,}0 & 4{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

172,0	221,0	320,0	227,0	172,0	227,0	68,0	77,0	152,0	186,0	240,0	242,0	223,0
236,0	263,0	40,0	117,0	132,0	248,0	251,0	340,0	133,0	122,0	189,0	134,0	187,0
234,0	197,0	232,0	293,0	184,0	250,0	296,0	94,0	178,0	174,0	72,0	97,0	172,0
206,0	257,0	274,0	157,0	138,0	189,0	139,0	196,0	299,0	213,0	216,0	309,0	142,0
167,0	234,0	220,0	227,0	328,0	71,0	176,0	223,0	96,0	89,0	156,0	251,0	250,0
243,0	178,0	172,0	234,0	87,0	152,0	183,0	233,0	208,0	185,0	175,0	185,0	187,0
61,0	105,0	121,0	104,0	200,0	256,0	85,0	82,0	133,0	141,0	206,0	309,0	118,0
86,0	102,0	186,0	192,0	210,0	169,0	210,0	257,0	234,0	297,0	398,0		

Proyecto 161
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 6{,}0 & 5{,}0 \\ 7{,}0 & 1{,}0 & 1{,}0 \\ 7{,}0 & 6{,}0 & 6{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

237,0	126,0	336,0	168,0	145,0	275,0	166,0	213,0	333,0	150,0	211,0	321,0	169,0
60,0	220,0	184,0	165,0	325,0	93,0	106,0	181,0	128,0	124,0	219,0	251,0	242,0
437,0	143,0	127,0	237,0	118,0	205,0	285,0	189,0	115,0	270,0	181,0	126,0	266,0
149,0	135,0	250,0	83,0	111,0	176,0	263,0	224,0	434,0	136,0	135,0	250,0	64,0
19,0	79,0	234,0	146,0	351,0	128,0	51,0	166,0	124,0	29,0	139,0	144,0	49,0
189,0	108,0	26,0	121,0	168,0	132,0	267,0	173,0	168,0	308,0	113,0	206,0	291,0
118,0	145,0	240,0	169,0	60,0	220,0	138,0	155,0	265,0	98,0	160,0	225,0	184,0
61,0	226,0	240,0	228,0	423,0	171,0	170,0	320,0					

Proyecto 162
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 2{,}0 & 2{,}0 \\ 1{,}0 & 5{,}0 & 6{,}0 \\ 4{,}0 & 1{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

134,0	125,0	195,0	152,0	132,0	239,0	198,0	132,0	246,0	154,0	138,0	135,0	60,0
109,0	41,0	116,0	122,0	183,0	184,0	207,0	328,0	122,0	262,0	282,0	108,0	227,0
275,0	150,0	160,0	163,0	108,0	83,0	140,0	144,0	151,0	208,0	180,0	77,0	157,0
232,0	217,0	263,0	108,0	241,0	274,0	76,0	162,0	153,0	114,0	84,0	144,0	106,0
88,0	106,0	154,0	204,0	211,0	230,0	170,0	152,0	164,0	177,0	252,0	190,0	215,0
275,0	64,0	95,0	77,0	170,0	160,0	112,0	116,0	137,0	190,0	166,0	183,0	261,0
164,0	244,0	223,0	144,0	111,0	114,0	98,0	190,0	174,0	224,0	198,0	267,0	68,0
101,0	47,0	66,0	138,0	156,0	188,0	299,0	308,0	250,0	276,0	384,0		

Proyecto 163
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 7{,}0 & 8{,}0 \\ 6{,}0 & 5{,}0 & 4{,}0 \\ 8{,}0 & 5{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

295,0	185,0	209,0	245,0	163,0	189,0	129,0	99,0	109,0	207,0	177,0	217,0	235,0
161,0	163,0	343,0	269,0	307,0	269,0	211,0	235,0	122,0	106,0	130,0	207,0	117,0
121,0	303,0	237,0	267,0	404,0	268,0	298,0	330,0	198,0	208,0	173,0	127,0	133,0
293,0	223,0	247,0	311,0	205,0	223,0	349,0	263,0	317,0	216,0	144,0	150,0	195,0
117,0	121,0	293,0	235,0	289,0	421,0	323,0	377,0	248,0	184,0	202,0	361,0	263,0
299,0	419,0	337,0	395,0	162,0	102,0	104,0	227,0	157,0	181,0	219,0	201,0	255,0
231,0	165,0	189,0	309,0	183,0	193,0	242,0	190,0	220,0	139,0	125,0	161,0	271,0
185,0	203,0	367,0	293,0	347,0	499,0	353,0	407,0					

Proyecto 164
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 7{,}0 & 9{,}0 \\ 1{,}0 & 6{,}0 & 3{,}0 \\ 2{,}0 & 3{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

372,0	183,0	285,0	253,0	135,0	185,0	336,0	183,0	244,0	280,0	145,0	204,0	244,0
182,0	131,0	353,0	223,0	231,0	255,0	189,0	143,0	89,0	68,0	48,0	261,0	192,0
149,0	271,0	191,0	155,0	68,0	34,0	51,0	214,0	147,0	133,0	328,0	177,0	246,0
248,0	110,0	199,0	177,0	137,0	96,0	484,0	274,0	341,0	104,0	79,0	54,0	316,0
173,0	224,0	170,0	84,0	141,0	341,0	188,0	245,0	199,0	101,0	149,0	217,0	96,0
186,0	167,0	75,0	133,0	318,0	131,0	271,0	218,0	112,0	169,0	135,0	96,0	86,0
275,0	148,0	197,0	268,0	168,0	183,0	223,0	154,0	138,0	276,0	100,0	245,0	272,0
130,0	217,0	192,0	89,0	159,0	416,0	238,0	283,0	322,0	120,0	289,0		

Proyecto 165
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 1{,}0 & 9{,}0 \\ 5{,}0 & 3{,}0 & 5{,}0 \\ 3{,}0 & 7{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

342,0	250,0	228,0	274,0	168,0	106,0	174,0	149,0	105,0	213,0	162,0	144,0	261,0
236,0	282,0	33,0	64,0	132,0	183,0	176,0	168,0	187,0	188,0	196,0	291,0	271,0
303,0	177,0	166,0	240,0	275,0	218,0	266,0	292,0	217,0	229,0	285,0	196,0	180,0
136,0	83,0	55,0	203,0	162,0	170,0	318,0	291,0	315,0	23,0	34,0	62,0	142,0
144,0	154,0	178,0	161,0	133,0	160,0	122,0	94,0	216,0	201,0	261,0	263,0	185,0
137,0	90,0	59,0	51,0	347,0	252,0	224,0	72,0	67,0	87,0	168,0	124,0	90,0
268,0	197,0	217,0	294,0	217,0	177,0	242,0	180,0	134,0	168,0	161,0	237,0	263,0
185,0	137,0	90,0	59,0	51,0	347,0	252,0	224,0	384,0	267,0	207,0		

Proyecto 166
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8,0 & 9,0 & 7,0 \\ 7,0 & 6,0 & 5,0 \\ 3,0 & 6,0 & 4,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

238,0	185,0	118,0	340,0	272,0	163,0	296,0	235,0	142,0	251,0	172,0	159,0	166,0
122,0	91,0	492,0	378,0	255,0	439,0	320,0	252,0	342,0	234,0	217,0	402,0	306,0
213,0	222,0	162,0	123,0	266,0	193,0	150,0	294,0	225,0	150,0	335,0	262,0	164,0
449,0	334,0	245,0	384,0	306,0	183,0	382,0	290,0	204,0	260,0	205,0	128,0	359,0
250,0	222,0	135,0	99,0	77,0	375,0	282,0	200,0	450,0	348,0	231,0	367,0	278,0
197,0	302,0	232,0	153,0	278,0	193,0	171,0	194,0	139,0	115,0	416,0	292,0	253,0
383,0	277,0	221,0	164,0	118,0	97,0	337,0	275,0	151,0	287,0	226,0	140,0	295,0
212,0	170,0	405,0	321,0	195,0	149,0	106,0	87,0	644,0	484,0	347,0		

Proyecto 167
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 5{,}0 & 6{,}0 \\ 2{,}0 & 1{,}0 & 8{,}0 \\ 1{,}0 & 7{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

321,0	263,0	136,0	231,0	177,0	187,0	137,0	159,0	48,0	282,0	112,0	163,0	291,0
155,0	190,0	149,0	73,0	35,0	347,0	265,0	202,0	183,0	169,0	105,0	249,0	161,0
111,0	309,0	207,0	163,0	322,0	188,0	155,0	208,0	70,0	85,0	161,0	167,0	52,0
311,0	145,0	178,0	191,0	151,0	128,0	295,0	257,0	107,0	309,0	255,0	171,0	237,0
187,0	114,0	327,0	273,0	176,0	239,0	151,0	58,0	145,0	153,0	73,0	285,0	107,0
219,0	238,0	184,0	145,0	199,0	117,0	73,0	315,0	183,0	235,0	201,0	75,0	129,0
215,0	149,0	168,0	272,0	178,0	85,0	127,0	123,0	66,0	307,0	261,0	109,0	189,0
95,0	131,0	236,0	130,0	73,0	341,0	287,0	92,0					

Proyecto 168
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 9,0 & 2,0 \\ 2,0 & 2,0 & 6,0 \\ 3,0 & 1,0 & 4,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

237,0	216,0	159,0	267,0	106,0	92,0	289,0	122,0	120,0	243,0	134,0	130,0	115,0
180,0	125,0	175,0	210,0	170,0	117,0	96,0	84,0	224,0	72,0	67,0	383,0	184,0
162,0	230,0	90,0	79,0	217,0	106,0	112,0	264,0	122,0	94,0	301,0	88,0	73,0
236,0	98,0	86,0	110,0	90,0	82,0	357,0	136,0	125,0	298,0	204,0	161,0	99,0
32,0	25,0	246,0	98,0	82,0	149,0	152,0	146,0	145,0	130,0	115,0	149,0	182,0
125,0	191,0	178,0	162,0	277,0	106,0	97,0	73,0	104,0	84,0	179,0	212,0	173,0
231,0	168,0	114,0	138,0	104,0	103,0	170,0	150,0	97,0	301,0	178,0	118,0	195,0
170,0	124,0	65,0	50,0	53,0	276,0	228,0	171,0	203,0	224,0	173,0		

Proyecto 169
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 2{,}0 & 5{,}0 \\ 5{,}0 & 1{,}0 & 2{,}0 \\ 3{,}0 & 7{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

192,0	113,0	167,0	225,0	132,0	172,0	270,0	168,0	192,0	187,0	118,0	210,0	66,0
37,0	155,0	171,0	98,0	158,0	285,0	159,0	257,0	208,0	98,0	310,0	194,0	91,0
261,0	193,0	116,0	228,0	149,0	91,0	117,0	205,0	119,0	201,0	222,0	149,0	139,0
304,0	185,0	311,0	193,0	89,0	279,0	121,0	58,0	198,0	156,0	96,0	120,0	134,0
84,0	132,0	213,0	120,0	272,0	262,0	174,0	282,0	239,0	137,0	231,0	270,0	155,0
285,0	84,0	47,0	129,0	192,0	124,0	252,0	173,0	97,0	175,0	244,0	139,0	237,0
256,0	134,0	306,0	116,0	57,0	159,0	78,0	36,0	148,0	158,0	70,0	178,0	64,0
34,0	102,0	149,0	91,0	117,0	180,0	78,0	298,0	275,0	147,0	285,0		

Proyecto 170
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 6{,}0 & 7{,}0 \\ 7{,}0 & 2{,}0 & 1{,}0 \\ 1{,}0 & 4{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

219,0	113,0	70,0	172,0	113,0	57,0	95,0	62,0	59,0	115,0	161,0	62,0	199,0
66,0	119,0	235,0	192,0	137,0	193,0	139,0	122,0	67,0	97,0	38,0	174,0	44,0
62,0	213,0	162,0	129,0	303,0	160,0	125,0	271,0	86,0	107,0	139,0	64,0	89,0
214,0	142,0	128,0	241,0	112,0	107,0	217,0	218,0	85,0	177,0	66,0	93,0	163,0
47,0	68,0	168,0	211,0	71,0	278,0	245,0	139,0	185,0	112,0	107,0	255,0	179,0
124,0	269,0	264,0	151,0	137,0	40,0	67,0	159,0	109,0	62,0	103,0	204,0	57,0
162,0	114,0	72,0	253,0	80,0	95,0	225,0	170,0	93,0	161,0	163,0	66,0	171,0
62,0	111,0	241,0	139,0	122,0	321,0	157,0	132,0					

Proyecto 171
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 8{,}0 & 4{,}0 \\ 4{,}0 & 2{,}0 & 7{,}0 \\ 3{,}0 & 7{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

156,0	138,0	201,0	247,0	142,0	270,0	41,0	59,0	74,0	199,0	181,0	259,0	314,0
266,0	423,0	221,0	221,0	344,0	143,0	185,0	237,0	132,0	123,0	177,0	111,0	219,0
237,0	241,0	271,0	387,0	63,0	93,0	101,0	215,0	245,0	328,0	99,0	108,0	138,0
160,0	247,0	314,0	128,0	200,0	245,0	287,0	212,0	360,0	283,0	205,0	351,0	261,0
231,0	379,0	143,0	185,0	237,0	132,0	123,0	177,0	249,0	177,0	285,0	48,0	87,0
95,0	286,0	301,0	437,0	133,0	136,0	204,0	199,0	151,0	242,0	229,0	253,0	368,0
201,0	162,0	277,0	133,0	76,0	149,0	237,0	102,0	240,0	125,0	71,0	134,0	97,0
91,0	129,0	277,0	163,0	327,0	343,0	361,0	517,0					

Proyecto 172
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

173

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 8{,}0 & 1{,}0 \\ 9{,}0 & 4{,}0 & 3{,}0 \\ 8{,}0 & 1{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

207,0	249,0	354,0	165,0	181,0	229,0	239,0	267,0	318,0	137,0	125,0	202,0	246,0
168,0	112,0	325,0	321,0	305,0	295,0	255,0	183,0	106,0	88,0	59,0	310,0	282,0
207,0	249,0	177,0	139,0	34,0	36,0	56,0	247,0	253,0	208,0	281,0	361,0	394,0
102,0	136,0	236,0	231,0	209,0	141,0	354,0	368,0	424,0	103,0	63,0	38,0	189,0
177,0	238,0	184,0	290,0	302,0	242,0	262,0	311,0	111,0	123,0	175,0	168,0	282,0
300,0	140,0	110,0	81,0	72,0	142,0	244,0	281,0	361,0	394,0	104,0	162,0	168,0
242,0	312,0	410,0	108,0	78,0	83,0	228,0	234,0	219,0	231,0	313,0	416,0	151,0
127,0	186,0	141,0	113,0	90,0	282,0	272,0	359,0					

Proyecto 173
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 9{,}0 & 9{,}0 \\ 8{,}0 & 1{,}0 & 2{,}0 \\ 1{,}0 & 4{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

101,0	121,0	34,0	292,0	45,0	129,0	407,0	163,0	170,0	445,0	79,0	197,0	81,0
78,0	29,0	189,0	230,0	63,0	296,0	75,0	130,0	242,0	191,0	92,0	353,0	96,0
153,0	434,0	105,0	189,0	303,0	162,0	123,0	270,0	249,0	99,0	358,0	156,0	149,0
182,0	62,0	77,0	353,0	96,0	153,0	524,0	123,0	229,0	223,0	141,0	89,0	324,0
131,0	137,0	363,0	81,0	159,0	324,0	131,0	137,0	138,0	43,0	59,0	164,0	133,0
62,0	418,0	81,0	185,0	328,0	199,0	131,0	242,0	191,0	92,0	274,0	41,0	121,0
207,0	105,0	85,0	102,0	35,0	43,0	346,0	185,0	139,0	207,0	105,0	85,0	102,0
35,0	43,0	328,0	181,0	131,0	378,0	275,0	147,0					

Proyecto 174
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 7{,}0 & 2{,}0 \\ 5{,}0 & 7{,}0 & 8{,}0 \\ 7{,}0 & 6{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

157,0	283,0	198,0	110,0	221,0	143,0	37,0	46,0	39,0	205,0	262,0	209,0	289,0
322,0	295,0	275,0	266,0	267,0	259,0	286,0	267,0	165,0	288,0	205,0	149,0	224,0
173,0	358,0	367,0	345,0	103,0	199,0	130,0	255,0	216,0	223,0	330,0	255,0	289,0
205,0	313,0	240,0	57,0	126,0	79,0	81,0	81,0	72,0	343,0	319,0	308,0	311,0
353,0	298,0	274,0	235,0	247,0	377,0	494,0	387,0	171,0	201,0	176,0	285,0	312,0
279,0	309,0	234,0	271,0	150,0	138,0	142,0	157,0	283,0	198,0	106,0	145,0	107,0
264,0	273,0	249,0	305,0	407,0	326,0	156,0	261,0	175,0	146,0	155,0	135,0	308,0
443,0	327,0	97,0	118,0	95,0	151,0	163,0	152,0	199,0	370,0	237,0		

Proyecto 175
Nombre del alumno: _____
Matrícula: _____　　　**Grupo:** _____　**Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 8{,}0 & 7{,}0 \\ 2{,}0 & 1{,}0 & 5{,}0 \\ 1{,}0 & 9{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

435,0	178,0	176,0	255,0	142,0	42,0	274,0	62,0	55,0	287,0	105,0	108,0	463,0
137,0	274,0	160,0	25,0	164,0	346,0	71,0	136,0	378,0	75,0	172,0	534,0	139,0
281,0	337,0	109,0	260,0	406,0	163,0	262,0	386,0	164,0	203,0	330,0	157,0	140,0
126,0	72,0	25,0	298,0	107,0	150,0	568,0	150,0	285,0	80,0	15,0	74,0	291,0
58,0	138,0	306,0	66,0	91,0	214,0	72,0	58,0	430,0	140,0	271,0	332,0	136,0
147,0	144,0	45,0	25,0	468,0	183,0	204,0	206,0	87,0	99,0	176,0	60,0	127,0
224,0	142,0	39,0	376,0	142,0	119,0	311,0	110,0	78,0	232,0	34,0	245,0	323,0
75,0	183,0	221,0	77,0	59,0	492,0	109,0	275,0	396,0	177,0	164,0		

Proyecto 176
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 5{,}0 & 7{,}0 \\ 3{,}0 & 7{,}0 & 5{,}0 \\ 2{,}0 & 8{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

210,0	138,0	108,0	234,0	177,0	162,0	236,0	160,0	132,0	169,0	188,0	198,0	156,0
111,0	90,0	362,0	289,0	266,0	303,0	291,0	292,0	232,0	257,0	270,0	284,0	241,0
230,0	212,0	151,0	122,0	238,0	182,0	156,0	266,0	178,0	140,0	295,0	191,0	148,0
363,0	288,0	258,0	302,0	205,0	170,0	262,0	230,0	224,0	188,0	142,0	128,0	243,0
261,0	272,0	89,0	88,0	90,0	311,0	235,0	204,0	245,0	154,0	122,0	180,0	114,0
88,0	76,0	53,0	46,0	279,0	168,0	126,0	231,0	159,0	132,0	238,0	182,0	156,0
250,0	185,0	162,0	193,0	152,0	142,0	225,0	207,0	200,0	251,0	148,0	110,0	243,0
216,0	206,0	245,0	232,0	230,0	490,0	401,0	370,0					

Proyecto 177
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 7{,}0 & 9{,}0 \\ 8{,}0 & 4{,}0 & 6{,}0 \\ 8{,}0 & 7{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

325,0	350,0	350,0	320,0	214,0	258,0	181,0	142,0	126,0	198,0	318,0	367,0	274,0
308,0	359,0	63,0	188,0	187,0	391,0	358,0	388,0	238,0	182,0	190,0	209,0	280,0
293,0	296,0	334,0	360,0	260,0	362,0	389,0	92,0	254,0	277,0	185,0	174,0	158,0
241,0	346,0	394,0	240,0	188,0	211,0	296,0	326,0	314,0	360,0	318,0	336,0	247,0
254,0	262,0	379,0	338,0	354,0	142,0	292,0	283,0	199,0	144,0	141,0	254,0	298,0
374,0	278,0	242,0	265,0	136,0	234,0	240,0	212,0	226,0	306,0	187,0	230,0	279,0
123,0	182,0	185,0	251,0	340,0	417,0	81,0	162,0	166,0	199,0	222,0	277,0	238,0
352,0	355,0	164,0	114,0	111,0	295,0	394,0	368,0					

Proyecto 178
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 4{,}0 & 2{,}0 \\ 7{,}0 & 4{,}0 & 8{,}0 \\ 3{,}0 & 3{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

176,0	244,0	77,0	192,0	281,0	78,0	258,0	321,0	105,0	226,0	238,0	113,0	106,0
109,0	70,0	152,0	223,0	68,0	234,0	376,0	102,0	170,0	327,0	99,0	142,0	299,0
78,0	218,0	256,0	111,0	142,0	182,0	60,0	194,0	268,0	90,0	242,0	245,0	98,0
326,0	389,0	156,0	146,0	304,0	84,0	112,0	193,0	68,0	150,0	189,0	63,0	150,0
167,0	71,0	222,0	298,0	117,0	342,0	319,0	169,0	218,0	314,0	100,0	260,0	360,0
125,0	98,0	123,0	56,0	262,0	249,0	139,0	154,0	232,0	72,0	220,0	322,0	101,0
242,0	319,0	135,0	184,0	276,0	81,0	38,0	91,0	21,0	230,0	377,0	114,0	108,0
215,0	69,0	104,0	123,0	61,0	160,0	191,0	102,0	186,0	351,0	98,0		

Proyecto 179
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 1{,}0 & 8{,}0 \\ 6{,}0 & 8{,}0 & 6{,}0 \\ 1{,}0 & 5{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

241,0	242,0	233,0	187,0	206,0	178,0	31,0	140,0	78,0	73,0	210,0	89,0	69,0
252,0	176,0	105,0	360,0	194,0	59,0	294,0	155,0	38,0	126,0	50,0	169,0	172,0
187,0	81,0	324,0	174,0	260,0	364,0	301,0	238,0	288,0	281,0	35,0	192,0	116,0
83,0	312,0	179,0	185,0	288,0	236,0	211,0	316,0	204,0	96,0	216,0	165,0	133,0
174,0	167,0	155,0	274,0	148,0	187,0	414,0	244,0	80,0	260,0	159,0	175,0	350,0
233,0	141,0	432,0	220,0	86,0	156,0	133,0	149,0	202,0	157,0	69,0	224,0	70,0
129,0	216,0	153,0	235,0	264,0	266,0	86,0	248,0	135,0	61,0	134,0	47,0	145,0
258,0	196,0	240,0	432,0	285,0	273,0	302,0	257,0					

Proyecto 180
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 4{,}0 & 5{,}0 \\ 1{,}0 & 3{,}0 & 4{,}0 \\ 3{,}0 & 8{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

120,0	81,0	184,0	158,0	112,0	265,0	43,0	31,0	36,0	155,0	104,0	238,0	244,0
179,0	290,0	193,0	151,0	142,0	139,0	98,0	142,0	105,0	72,0	149,0	141,0	96,0
120,0	221,0	166,0	186,0	63,0	38,0	98,0	193,0	135,0	224,0	84,0	54,0	131,0
179,0	135,0	103,0	142,0	103,0	106,0	208,0	152,0	275,0	203,0	148,0	274,0	213,0
166,0	182,0	139,0	98,0	142,0	105,0	72,0	149,0	171,0	114,0	304,0	57,0	38,0
57,0	251,0	186,0	241,0	116,0	88,0	101,0	143,0	99,0	222,0	209,0	159,0	166,0
85,0	65,0	106,0	147,0	105,0	198,0	167,0	119,0	179,0	111,0	72,0	114,0	81,0
59,0	130,0	117,0	88,0	54,0	203,0	146,0	118,0					

Proyecto 181
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 8{,}0 & 8{,}0 \\ 3{,}0 & 2{,}0 & 5{,}0 \\ 6{,}0 & 4{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

348,0	201,0	267,0	241,0	133,0	186,0	319,0	181,0	262,0	273,0	131,0	162,0	261,0
94,0	163,0	347,0	181,0	292,0	263,0	119,0	218,0	93,0	40,0	75,0	266,0	128,0
236,0	285,0	109,0	178,0	65,0	34,0	43,0	210,0	117,0	209,0	299,0	203,0	316,0
229,0	134,0	163,0	182,0	87,0	169,0	467,0	250,0	365,0	113,0	37,0	64,0	309,0
151,0	202,0	139,0	136,0	227,0	326,0	180,0	260,0	189,0	103,0	136,0	131,0	134,0
223,0	126,0	109,0	153,0	41,0	38,0	71,0	251,0	164,0	283,0	277,0	141,0	222,0
153,0	86,0	97,0	354,0	183,0	291,0	200,0	148,0	206,0	97,0	54,0	63,0	343,0
208,0	281,0	90,0	84,0	148,0	459,0	276,0	407,0					

Proyecto 182
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 1{,}0 & 7{,}0 \\ 8{,}0 & 8{,}0 & 7{,}0 \\ 1{,}0 & 8{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

274,0	293,0	182,0	186,0	219,0	163,0	43,0	53,0	29,0	176,0	290,0	213,0	327,0
389,0	181,0	278,0	340,0	139,0	316,0	350,0	143,0	281,0	301,0	183,0	225,0	245,0
135,0	310,0	449,0	245,0	159,0	198,0	152,0	131,0	279,0	173,0	212,0	351,0	161,0
316,0	341,0	188,0	113,0	123,0	89,0	30,0	95,0	80,0	188,0	395,0	264,0	202,0
403,0	306,0	189,0	308,0	157,0	323,0	541,0	409,0	187,0	236,0	126,0	246,0	370,0
223,0	209,0	327,0	137,0	137,0	179,0	76,0	274,0	293,0	182,0	68,0	153,0	139,0
186,0	327,0	213,0	258,0	369,0	214,0	302,0	336,0	131,0	229,0	282,0	142,0	222,0
261,0	206,0	225,0	250,0	110,0	253,0	365,0	289,0	345,0	427,0	265,0		

Proyecto 183
Nombre del alumno: _____
Matrícula: _____ $\qquad$ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7,0 & 1,0 & 9,0 \\ 8,0 & 2,0 & 2,0 \\ 7,0 & 9,0 & 8,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

356,0	196,0	449,0	282,0	116,0	265,0	201,0	224,0	224,0	226,0	150,0	284,0	276,0
206,0	476,0	34,0	46,0	177,0	210,0	242,0	305,0	214,0	250,0	341,0	317,0	286,0
521,0	178,0	94,0	378,0	276,0	114,0	457,0	297,0	132,0	422,0	290,0	118,0	359,0
139,0	52,0	134,0	212,0	130,0	309,0	347,0	312,0	550,0	24,0	26,0	87,0	162,0
188,0	265,0	205,0	232,0	260,0	174,0	136,0	198,0	99,0	128,0	314,0	175,0	174,0
314,0	147,0	130,0	174,0	289,0	272,0	432,0	198,0	202,0	353,0	335,0	160,0	316,0
259,0	196,0	318,0	168,0	194,0	263,0	205,0	98,0	307,0	286,0	266,0	405,0	334,0
250,0	326,0	257,0	182,0	283,0	294,0	100,0	305,0					

Proyecto 184
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

185

Matriz llave:

$$K = \begin{pmatrix} 3,0 & 5,0 & 8,0 \\ 6,0 & 6,0 & 4,0 \\ 9,0 & 4,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

318,0	276,0	342,0	263,0	214,0	197,0	166,0	100,0	126,0	211,0	290,0	340,0	258,0
288,0	315,0	97,0	142,0	204,0	356,0	312,0	346,0	209,0	154,0	167,0	217,0	230,0
286,0	287,0	286,0	335,0	271,0	306,0	374,0	129,0	214,0	280,0	178,0	124,0	162,0
248,0	312,0	364,0	208,0	172,0	177,0	295,0	246,0	317,0	327,0	270,0	303,0	236,0
208,0	248,0	346,0	284,0	322,0	182,0	216,0	307,0	175,0	114,0	128,0	235,0	302,0
313,0	249,0	214,0	232,0	157,0	186,0	245,0	305,0	310,0	314,0	153,0	210,0	237,0
230,0	204,0	196,0	248,0	312,0	364,0	197,0	254,0	276,0	260,0	192,0	256,0	165,0
206,0	224,0	83,0	126,0	181,0	214,0	200,0	211,0	318,0	284,0	392,0		

Proyecto 185
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 1{,}0 & 2{,}0 \\ 2{,}0 & 9{,}0 & 1{,}0 \\ 9{,}0 & 5{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

145,0	91,0	281,0	170,0	65,0	320,0	222,0	96,0	378,0	154,0	203,0	292,0	43,0
187,0	135,0	124,0	85,0	254,0	199,0	112,0	421,0	108,0	208,0	356,0	101,0	145,0
321,0	148,0	203,0	306,0	119,0	64,0	213,0	151,0	128,0	309,0	203,0	95,0	303,0
239,0	249,0	463,0	97,0	170,0	327,0	64,0	155,0	214,0	126,0	66,0	222,0	110,0
112,0	202,0	148,0	223,0	346,0	232,0	302,0	404,0	173,0	136,0	359,0	195,0	195,0
415,0	57,0	123,0	145,0	168,0	285,0	338,0	79,0	145,0	159,0	106,0	110,0	186,0
36,0	246,0	152,0	121,0	102,0	263,0	175,0	137,0	367,0	148,0	284,0	372,0	258,0
216,0	534,0	203,0	148,0	441,0	207,0	150,0	457,0					

Proyecto 186
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 1{,}0 & 5{,}0 \\ 7{,}0 & 9{,}0 & 3{,}0 \\ 4{,}0 & 3{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

184,0	174,0	267,0	153,0	160,0	215,0	38,0	155,0	67,0	104,0	230,0	131,0	56,0
265,0	125,0	128,0	391,0	197,0	80,0	330,0	137,0	59,0	141,0	74,0	113,0	119,0
183,0	102,0	357,0	165,0	209,0	312,0	318,0	167,0	224,0	272,0	38,0	213,0	83,0
95,0	339,0	161,0	146,0	255,0	233,0	208,0	291,0	275,0	75,0	210,0	138,0	92,0
140,0	155,0	173,0	270,0	219,0	199,0	420,0	283,0	83,0	276,0	142,0	166,0	342,0
249,0	178,0	467,0	253,0	61,0	142,0	112,0	128,0	174,0	183,0	120,0	255,0	137,0
117,0	201,0	171,0	164,0	197,0	263,0	46,0	172,0	85,0	134,0	221,0	222,0	52,0
281,0	109,0	134,0	312,0	215,0	216,0	320,0	333,0					

Proyecto 187
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

188

Matriz llave:

$$K = \begin{pmatrix} 1,0 & 7,0 & 9,0 \\ 6,0 & 1,0 & 2,0 \\ 8,0 & 2,0 & 1,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

161,0	143,0	194,0	240,0	125,0	178,0	64,0	42,0	49,0	205,0	191,0	259,0	387,0
175,0	218,0	342,0	74,0	63,0	199,0	149,0	183,0	145,0	118,0	157,0	183,0	195,0
237,0	361,0	147,0	161,0	63,0	121,0	163,0	274,0	208,0	263,0	100,0	127,0	172,0
290,0	131,0	133,0	213,0	137,0	156,0	330,0	145,0	188,0	321,0	143,0	187,0	377,0
79,0	73,0	199,0	149,0	183,0	145,0	118,0	157,0	227,0	203,0	287,0	71,0	84,0
105,0	401,0	182,0	211,0	194,0	67,0	72,0	204,0	144,0	197,0	350,0	122,0	127,0
253,0	161,0	189,0	172,0	151,0	183,0	199,0	35,0	63,0	187,0	124,0	169,0	87,0
98,0	125,0	375,0	231,0	273,0	109,0	110,0	153,0	380,0	157,0	171,0		

Proyecto 188
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 1{,}0 & 1{,}0 \\ 5{,}0 & 5{,}0 & 8{,}0 \\ 5{,}0 & 8{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

88,0	281,0	95,0	50,0	213,0	78,0	19,0	44,0	26,0	74,0	232,0	179,0	159,0
312,0	194,0	152,0	256,0	187,0	154,0	284,0	161,0	93,0	286,0	100,0	85,0	222,0
92,0	166,0	335,0	278,0	43,0	189,0	78,0	95,0	178,0	228,0	152,0	223,0	264,0
118,0	311,0	125,0	29,0	124,0	36,0	20,0	63,0	83,0	122,0	265,0	311,0	100,0
299,0	289,0	123,0	207,0	221,0	131,0	436,0	334,0	87,0	191,0	122,0	124,0	282,0
229,0	149,0	208,0	240,0	79,0	130,0	107,0	88,0	281,0	95,0	39,0	229,0	151,0
43,0	127,0	141,0	56,0	192,0	245,0	60,0	123,0	158,0	77,0	134,0	140,0	33,0
148,0	222,0	103,0	210,0	229,0	79,0	130,0	107,0	189,0	492,0	364,0		

Proyecto 189
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 5{,}0 & 2{,}0 \\ 8{,}0 & 1{,}0 & 6{,}0 \\ 1{,}0 & 3{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

171,0	289,0	302,0	79,0	215,0	236,0	98,0	225,0	45,0	112,0	197,0	166,0	212,0
243,0	240,0	95,0	32,0	64,0	143,0	234,0	72,0	163,0	238,0	84,0	237,0	307,0
215,0	170,0	131,0	226,0	187,0	196,0	322,0	164,0	221,0	305,0	129,0	214,0	284,0
40,0	103,0	123,0	127,0	176,0	186,0	248,0	337,0	227,0	45,0	22,0	34,0	127,0
179,0	68,0	118,0	229,0	57,0	78,0	164,0	98,0	170,0	123,0	126,0	70,0	153,0
69,0	152,0	162,0	119,0	118,0	313,0	174,0	107,0	233,0	159,0	109,0	197,0	265,0
110,0	289,0	138,0	132,0	179,0	214,0	153,0	170,0	186,0	114,0	273,0	117,0	91,0
72,0	74,0	70,0	187,0	183,0	144,0	391,0	291,0					

Proyecto 190
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 2{,}0 & 8{,}0 \\ 4{,}0 & 7{,}0 & 9{,}0 \\ 4{,}0 & 1{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

166,0	226,0	201,0	61,0	208,0	129,0	134,0	232,0	189,0	113,0	225,0	96,0	157,0
190,0	165,0	185,0	376,0	247,0	164,0	353,0	179,0	159,0	310,0	135,0	131,0	298,0
175,0	221,0	262,0	229,0	230,0	294,0	237,0	230,0	298,0	265,0	228,0	313,0	281,0
275,0	419,0	306,0	161,0	292,0	235,0	108,0	274,0	148,0	76,0	180,0	121,0	154,0
313,0	139,0	39,0	101,0	45,0	240,0	353,0	273,0	185,0	357,0	251,0	49,0	155,0
46,0	141,0	210,0	141,0	76,0	254,0	91,0	92,0	235,0	122,0	62,0	129,0	100,0
137,0	322,0	199,0	151,0	307,0	169,0	129,0	167,0	128,0	192,0	396,0	219,0	170,0
261,0	213,0	79,0	106,0	79,0	259,0	401,0	290,0	270,0	404,0	321,0		

Proyecto 191
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 6{,}0 & 2{,}0 \\ 5{,}0 & 4{,}0 & 4{,}0 \\ 1{,}0 & 6{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

279,0	239,0	262,0	182,0	170,0	261,0	71,0	95,0	142,0	361,0	227,0	170,0	321,0
227,0	229,0	194,0	120,0	54,0	303,0	259,0	318,0	128,0	132,0	191,0	262,0	192,0
172,0	308,0	236,0	243,0	357,0	251,0	216,0	293,0	171,0	82,0	107,0	115,0	146,0
375,0	247,0	204,0	155,0	141,0	195,0	246,0	218,0	237,0	252,0	228,0	291,0	209,0
177,0	200,0	265,0	241,0	306,0	273,0	187,0	117,0	84,0	102,0	158,0	352,0	228,0
217,0	203,0	177,0	226,0	228,0	156,0	113,0	296,0	194,0	204,0	167,0	105,0	100,0
177,0	113,0	88,0	179,0	129,0	191,0	163,0	107,0	68,0	256,0	170,0	169,0	273,0
187,0	117,0	189,0	167,0	223,0	227,0	177,0	220,0	391,0	311,0	320,0		

Proyecto 192
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 7{,}0 & 5{,}0 \\ 2{,}0 & 4{,}0 & 7{,}0 \\ 3{,}0 & 2{,}0 & 3{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

312,0	273,0	147,0	274,0	153,0	108,0	320,0	165,0	134,0	298,0	169,0	134,0	194,0
217,0	103,0	284,0	247,0	148,0	163,0	116,0	79,0	221,0	109,0	84,0	423,0	250,0
177,0	236,0	130,0	93,0	264,0	133,0	118,0	271,0	175,0	107,0	278,0	143,0	99,0
196,0	157,0	95,0	271,0	212,0	132,0	318,0	275,0	150,0	242,0	165,0	114,0	215,0
97,0	90,0	219,0	194,0	96,0	340,0	193,0	146,0	279,0	153,0	112,0	220,0	219,0
122,0	208,0	192,0	89,0	148,0	94,0	55,0	371,0	311,0	160,0	242,0	165,0	114,0
215,0	97,0	90,0	219,0	194,0	96,0	347,0	226,0	159,0	161,0	89,0	54,0	156,0
147,0	72,0	338,0	227,0	135,0	236,0	208,0	97,0	381,0	325,0	166,0		

Proyecto 193
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 6,0 & 3,0 \\ 4,0 & 4,0 & 8,0 \\ 2,0 & 1,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

136,0	196,0	65,0	136,0	224,0	75,0	171,0	240,0	87,0	195,0	184,0	64,0	135,0
100,0	28,0	124,0	184,0	59,0	191,0	316,0	99,0	215,0	312,0	83,0	173,0	284,0
76,0	199,0	208,0	68,0	101,0	140,0	49,0	163,0	220,0	71,0	147,0	164,0	68,0
273,0	308,0	104,0	187,0	292,0	77,0	144,0	184,0	49,0	105,0	144,0	51,0	121,0
128,0	45,0	221,0	256,0	78,0	281,0	232,0	87,0	183,0	260,0	83,0	230,0	300,0
95,0	107,0	108,0	32,0	241,0	192,0	67,0	135,0	196,0	61,0	186,0	268,0	85,0
217,0	168,0	55,0	187,0	176,0	60,0	95,0	112,0	42,0	150,0	208,0	79,0	172,0
232,0	65,0	195,0	220,0	64,0	267,0	288,0	87,0	201,0	344,0	113,0		

Proyecto 194
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

195

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 8{,}0 & 3{,}0 \\ 6{,}0 & 8{,}0 & 3{,}0 \\ 1{,}0 & 7{,}0 & 4{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

125,0	161,0	127,0	107,0	146,0	100,0	122,0	137,0	100,0	141,0	201,0	95,0	234,0
237,0	210,0	288,0	345,0	228,0	255,0	291,0	205,0	87,0	123,0	58,0	106,0	112,0
117,0	270,0	315,0	216,0	238,0	283,0	221,0	192,0	207,0	197,0	180,0	189,0	154,0
264,0	300,0	217,0	204,0	231,0	190,0	178,0	259,0	138,0	180,0	189,0	165,0	123,0
129,0	125,0	157,0	238,0	110,0	291,0	372,0	230,0	218,0	245,0	183,0	251,0	305,0
211,0	324,0	411,0	246,0	126,0	129,0	121,0	121,0	157,0	107,0	140,0	221,0	80,0
144,0	180,0	123,0	168,0	183,0	176,0	188,0	233,0	147,0	71,0	125,0	37,0	189,0
216,0	170,0	268,0	349,0	203,0	368,0	449,0	318,0					

Proyecto 195
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 8{,}0 & 2{,}0 \\ 8{,}0 & 8{,}0 & 5{,}0 \\ 7{,}0 & 8{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

148,0	300,0	296,0	239,0	356,0	357,0	31,0	81,0	96,0	189,0	393,0	386,0	274,0
460,0	522,0	167,0	255,0	362,0	117,0	289,0	322,0	122,0	249,0	253,0	81,0	315,0
348,0	187,0	359,0	454,0	61,0	197,0	182,0	185,0	419,0	452,0	95,0	234,0	223,0
106,0	271,0	367,0	92,0	258,0	314,0	259,0	406,0	447,0	257,0	401,0	438,0	207,0
295,0	402,0	117,0	289,0	322,0	122,0	249,0	253,0	247,0	453,0	428,0	38,0	137,0
145,0	232,0	439,0	529,0	105,0	182,0	233,0	189,0	337,0	338,0	175,0	319,0	418,0
111,0	139,0	166,0	177,0	309,0	330,0	154,0	339,0	379,0	201,0	471,0	552,0	139,0
209,0	292,0	155,0	291,0	338,0	285,0	561,0	650,0					

Proyecto 196
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 7{,}0 & 1{,}0 \\ 6{,}0 & 3{,}0 & 4{,}0 \\ 9{,}0 & 2{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

228,0	225,0	165,0	179,0	157,0	123,0	266,0	224,0	191,0	126,0	128,0	57,0	234,0
131,0	104,0	355,0	251,0	239,0	313,0	187,0	193,0	111,0	64,0	66,0	337,0	205,0
220,0	237,0	143,0	107,0	34,0	35,0	20,0	282,0	185,0	205,0	346,0	282,0	293,0
110,0	135,0	80,0	253,0	148,0	167,0	382,0	309,0	256,0	94,0	50,0	35,0	186,0
164,0	101,0	260,0	213,0	262,0	265,0	221,0	184,0	117,0	113,0	77,0	246,0	207,0
258,0	141,0	84,0	76,0	98,0	133,0	102,0	358,0	255,0	290,0	297,0	194,0	216,0
138,0	189,0	146,0	99,0	70,0	40,0	255,0	180,0	180,0	278,0	267,0	233,0	269,0
210,0	195,0	78,0	109,0	56,0	321,0	219,0	201,0	198,0	227,0	178,0		

Proyecto 197
Nombre del alumno: _____
Matrícula: _____		**Grupo:** _____		**Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 6{,}0 & 1{,}0 \\ 8{,}0 & 4{,}0 & 1{,}0 \\ 6{,}0 & 3{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

38,0	120,0	99,0	169,0	121,0	102,0	202,0	232,0	201,0	186,0	138,0	153,0	43,0
89,0	69,0	83,0	237,0	189,0	61,0	63,0	108,0	83,0	193,0	174,0	137,0	131,0
141,0	191,0	167,0	168,0	117,0	183,0	171,0	87,0	243,0	216,0	140,0	186,0	180,0
98,0	100,0	84,0	137,0	131,0	141,0	211,0	183,0	198,0	50,0	126,0	135,0	75,0
119,0	150,0	150,0	126,0	135,0	75,0	119,0	150,0	116,0	90,0	108,0	98,0	100,0
84,0	201,0	203,0	213,0	81,0	63,0	63,0	147,0	201,0	171,0	145,0	239,0	240,0
155,0	215,0	195,0	55,0	63,0	90,0	207,0	243,0	216,0	80,0	166,0	165,0	29,0
29,0	42,0	141,0	203,0	213,0	91,0	97,0	138,0					

Proyecto 198
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9,0 & 5,0 & 6,0 \\ 1,0 & 1,0 & 6,0 \\ 9,0 & 4,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

275,0	175,0	247,0	191,0	135,0	166,0	50,0	22,0	46,0	240,0	108,0	211,0	382,0
146,0	358,0	340,0	104,0	323,0	356,0	136,0	337,0	284,0	176,0	256,0	236,0	128,0
216,0	413,0	133,0	382,0	169,0	117,0	146,0	236,0	40,0	216,0	329,0	49,0	312,0
329,0	181,0	301,0	110,0	82,0	96,0	69,0	17,0	59,0	327,0	75,0	295,0	321,0
117,0	281,0	283,0	59,0	265,0	442,0	206,0	386,0	223,0	91,0	206,0	330,0	118,0
301,0	314,0	46,0	300,0	176,0	48,0	167,0	275,0	175,0	247,0	324,0	124,0	291,0
166,0	122,0	142,0	276,0	48,0	248,0	233,0	109,0	211,0	327,0	147,0	298,0	354,0
190,0	312,0	195,0	139,0	162,0	277,0	117,0	248,0	542,0	226,0	488,0		

Proyecto 199
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 2{,}0 & 9{,}0 \\ 8{,}0 & 5{,}0 & 7{,}0 \\ 6{,}0 & 8{,}0 & 8{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

357,0	376,0	420,0	275,0	244,0	256,0	177,0	238,0	194,0	222,0	247,0	262,0	288,0
367,0	434,0	51,0	105,0	158,0	195,0	283,0	266,0	203,0	303,0	298,0	318,0	427,0
468,0	204,0	255,0	350,0	301,0	327,0	430,0	311,0	324,0	398,0	297,0	289,0	342,0
137,0	120,0	130,0	217,0	247,0	286,0	345,0	458,0	494,0	31,0	55,0	78,0	155,0
232,0	232,0	185,0	258,0	226,0	164,0	188,0	180,0	279,0	340,0	422,0	272,0	307,0
366,0	65,0	112,0	142,0	305,0	341,0	314,0	154,0	147,0	170,0	373,0	374,0	376,0
81,0	104,0	130,0	171,0	190,0	180,0	287,0	292,0	374,0	168,0	175,0	208,0	113,0
136,0	182,0	263,0	218,0	242,0	308,0	313,0	294,0	473,0	544,0	594,0		

Proyecto 200
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 4{,}0 & 9{,}0 \\ 2{,}0 & 5{,}0 & 7{,}0 \\ 2{,}0 & 3{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

187,0	162,0	103,0	88,0	126,0	97,0	157,0	156,0	107,0	162,0	165,0	98,0	178,0
144,0	85,0	238,0	254,0	171,0	230,0	247,0	157,0	226,0	228,0	135,0	178,0	200,0
135,0	250,0	200,0	117,0	267,0	222,0	131,0	259,0	218,0	135,0	256,0	223,0	143,0
332,0	303,0	188,0	190,0	194,0	135,0	154,0	182,0	124,0	99,0	116,0	83,0	220,0
227,0	137,0	59,0	69,0	45,0	284,0	255,0	159,0	139,0	143,0	105,0	229,0	215,0
131,0	206,0	209,0	130,0	132,0	172,0	115,0	133,0	157,0	106,0	111,0	111,0	76,0
143,0	194,0	137,0	133,0	157,0	106,0	111,0	111,0	76,0	143,0	194,0	137,0	175,0
164,0	105,0	234,0	221,0	143,0	316,0	290,0	179,0	313,0	280,0	175,0		

Proyecto 201
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 5,0 & 2,0 \\ 6,0 & 2,0 & 4,0 \\ 2,0 & 1,0 & 9,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

112,0	74,0	69,0	165,0	104,0	82,0	231,0	218,0	235,0	197,0	160,0	162,0	157,0
144,0	154,0	245,0	244,0	282,0	161,0	228,0	185,0	170,0	190,0	75,0	180,0	258,0
249,0	162,0	170,0	262,0	147,0	76,0	65,0	195,0	164,0	217,0	245,0	232,0	186,0
130,0	138,0	204,0	161,0	96,0	64,0	26,0	18,0	15,0	224,0	266,0	232,0	94,0
142,0	140,0	87,0	60,0	32,0	171,0	248,0	230,0	241,0	260,0	201,0	169,0	120,0
164,0	175,0	198,0	209,0	213,0	218,0	187,0	58,0	66,0	31,0	183,0	142,0	179,0
96,0	46,0	29,0	159,0	240,0	219,0	45,0	56,0	58,0	209,0	166,0	72,0	164,0
152,0	95,0	86,0	112,0	77,0	226,0	238,0	155,0	171,0	280,0	316,0		

Proyecto 202
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2,0 & 8,0 & 4,0 \\ 6,0 & 6,0 & 8,0 \\ 5,0 & 4,0 & 6,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

174,0	178,0	127,0	266,0	300,0	221,0	134,0	110,0	75,0	284,0	350,0	262,0	298,0
336,0	241,0	222,0	264,0	191,0	220,0	244,0	178,0	328,0	422,0	312,0	250,0	328,0
241,0	118,0	116,0	83,0	270,0	308,0	227,0	166,0	152,0	107,0	88,0	98,0	72,0
208,0	244,0	180,0	330,0	428,0	317,0	246,0	240,0	171,0	166,0	222,0	167,0	102,0
212,0	163,0	150,0	304,0	239,0	298,0	450,0	341,0	210,0	354,0	273,0	98,0	120,0
89,0	318,0	368,0	263,0	254,0	402,0	307,0	106,0	184,0	137,0	46,0	80,0	63,0
266,0	300,0	221,0	250,0	390,0	293,0	182,0	220,0	159,0	202,0	242,0	181,0	88,0
174,0	136,0	290,0	312,0	221,0	206,0	254,0	191,0	290,0	484,0	369,0		

Proyecto 203
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6,0 & 5,0 & 5,0 \\ 8,0 & 1,0 & 2,0 \\ 2,0 & 8,0 & 9,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

43,0	33,0	50,0	206,0	61,0	335,0	196,0	64,0	324,0	319,0	152,0	469,0	260,0
113,0	405,0	331,0	236,0	397,0	233,0	189,0	256,0	350,0	197,0	471,0	182,0	221,0
87,0	164,0	87,0	259,0	233,0	189,0	256,0	330,0	189,0	435,0	224,0	167,0	279,0
214,0	143,0	241,0	272,0	231,0	295,0	188,0	111,0	259,0	285,0	211,0	322,0	194,0
127,0	269,0	184,0	91,0	291,0	195,0	82,0	283,0	330,0	229,0	403,0	235,0	108,0
365,0	360,0	235,0	451,0	88,0	51,0	131,0	199,0	116,0	265,0	317,0	263,0	318,0
125,0	60,0	163,0	138,0	63,0	213,0	239,0	147,0	280,0	129,0	88,0	139,0	138,0
119,0	125,0	146,0	37,0	227,0	312,0	275,0	323,0					

Proyecto 204
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 6{,}0 & 3{,}0 \\ 8{,}0 & 8{,}0 & 6{,}0 \\ 9{,}0 & 8{,}0 & 5{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

156,0	244,0	227,0	126,0	176,0	177,0	204,0	280,0	281,0	228,0	328,0	321,0	285,0
434,0	422,0	192,0	292,0	279,0	213,0	294,0	304,0	351,0	518,0	512,0	303,0	422,0
440,0	183,0	254,0	256,0	183,0	246,0	272,0	153,0	246,0	237,0	120,0	188,0	186,0
195,0	314,0	291,0	327,0	490,0	483,0	222,0	336,0	322,0	279,0	402,0	408,0	225,0
330,0	342,0	294,0	424,0	422,0	51,0	86,0	78,0	123,0	170,0	172,0	141,0	242,0
224,0	324,0	440,0	461,0	177,0	242,0	248,0	186,0	272,0	269,0	141,0	190,0	198,0
207,0	294,0	312,0	123,0	170,0	172,0	117,0	194,0	184,0	207,0	294,0	312,0	123,0
170,0	172,0	117,0	194,0	184,0	399,0	590,0	588,0					

Proyecto 205
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 8{,}0 & 2{,}0 \\ 6{,}0 & 3{,}0 & 5{,}0 \\ 6{,}0 & 7{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

178,0	148,0	164,0	238,0	146,0	218,0	230,0	247,0	211,0	254,0	273,0	229,0	126,0
68,0	108,0	252,0	126,0	222,0	108,0	57,0	93,0	224,0	167,0	211,0	216,0	246,0
198,0	332,0	245,0	289,0	154,0	138,0	146,0	224,0	156,0	196,0	256,0	267,0	215,0
404,0	326,0	358,0	168,0	146,0	162,0	332,0	264,0	304,0	324,0	225,0	285,0	176,0
138,0	154,0	198,0	230,0	174,0	216,0	246,0	198,0	308,0	185,0	277,0	200,0	115,0
175,0	230,0	192,0	208,0	98,0	102,0	94,0	202,0	169,0	173,0	326,0	300,0	292,0
124,0	124,0	116,0	288,0	294,0	246,0	170,0	144,0	136,0	150,0	92,0	132,0	270,0
171,0	231,0	200,0	246,0	166,0	376,0	312,0	320,0					

Proyecto 206
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 7{,}0 & 1{,}0 \\ 5{,}0 & 8{,}0 & 1{,}0 \\ 7{,}0 & 5{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

38,0	27,0	50,0	220,0	243,0	274,0	86,0	69,0	170,0	288,0	246,0	357,0	248,0
177,0	215,0	188,0	137,0	285,0	288,0	218,0	223,0	280,0	176,0	263,0	200,0	133,0
169,0	105,0	102,0	156,0	340,0	311,0	383,0	404,0	316,0	415,0	384,0	296,0	295,0
140,0	90,0	155,0	170,0	164,0	267,0	248,0	177,0	215,0	180,0	129,0	237,0	328,0
232,0	255,0	404,0	316,0	415,0	259,0	160,0	342,0	241,0	174,0	220,0	251,0	172,0
334,0	42,0	42,0	57,0	129,0	82,0	173,0	242,0	167,0	327,0	139,0	151,0	195,0
147,0	141,0	129,0	290,0	280,0	355,0	113,0	106,0	157,0	109,0	118,0	126,0	61,0
50,0	188,0	415,0	342,0	316,0	447,0	364,0	488,0					

Proyecto 207
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 4{,}0 & 9{,}0 \\ 7{,}0 & 2{,}0 & 2{,}0 \\ 6{,}0 & 8{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

311,0	113,0	369,0	150,0	85,0	236,0	266,0	193,0	328,0	407,0	266,0	519,0	198,0
79,0	264,0	165,0	175,0	283,0	181,0	148,0	289,0	129,0	197,0	195,0	355,0	205,0
429,0	157,0	161,0	231,0	278,0	159,0	368,0	155,0	95,0	273,0	314,0	177,0	400,0
155,0	85,0	237,0	200,0	105,0	318,0	97,0	31,0	111,0	157,0	71,0	267,0	201,0
148,0	333,0	312,0	226,0	396,0	213,0	169,0	351,0	272,0	176,0	408,0	310,0	105,0
420,0	61,0	73,0	95,0	139,0	197,0	197,0	65,0	25,0	83,0	115,0	115,0	177,0
148,0	69,0	258,0	101,0	93,0	175,0	115,0	115,0	177,0	121,0	63,0	231,0	211,0
128,0	263,0	288,0	184,0	360,0	373,0	179,0	459,0					

Proyecto 208
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 2{,}0 & 4{,}0 \\ 6{,}0 & 3{,}0 & 2{,}0 \\ 3{,}0 & 9{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

278,0	195,0	327,0	80,0	78,0	162,0	234,0	169,0	206,0	200,0	176,0	229,0	290,0
237,0	447,0	186,0	175,0	320,0	240,0	192,0	321,0	222,0	201,0	339,0	100,0	84,0
186,0	58,0	53,0	118,0	36,0	28,0	74,0	226,0	205,0	335,0	196,0	176,0	244,0
210,0	197,0	307,0	184,0	160,0	245,0	156,0	114,0	141,0	84,0	80,0	169,0	274,0
221,0	463,0	262,0	211,0	233,0	182,0	141,0	291,0	52,0	56,0	157,0	254,0	211,0
428,0	286,0	239,0	418,0	144,0	110,0	274,0	70,0	63,0	183,0	148,0	112,0	281,0
178,0	173,0	295,0	184,0	160,0	245,0	140,0	106,0	113,0	320,0	246,0	351,0	146,0
109,0	107,0	290,0	213,0	381,0	158,0	105,0	282,0	166,0	109,0	296,0		

Proyecto 209
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 6{,}0 & 1{,}0 \\ 5{,}0 & 7{,}0 & 7{,}0 \\ 9{,}0 & 2{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

104,0	298,0	150,0	107,0	218,0	99,0	42,0	159,0	168,0	72,0	163,0	150,0	149,0
315,0	211,0	152,0	310,0	298,0	52,0	170,0	254,0	167,0	380,0	327,0	175,0	278,0
99,0	26,0	94,0	100,0	139,0	237,0	205,0	183,0	328,0	141,0	78,0	329,0	280,0
82,0	231,0	186,0	147,0	280,0	147,0	166,0	215,0	72,0	131,0	277,0	135,0	46,0
180,0	80,0	51,0	286,0	245,0	147,0	262,0	201,0	61,0	244,0	127,0	79,0	214,0
165,0	130,0	192,0	124,0	190,0	349,0	246,0	80,0	103,0	38,0	185,0	312,0	237,0
94,0	150,0	112,0	70,0	149,0	144,0	182,0	327,0	120,0	108,0	283,0	170,0	22,0
95,0	122,0	150,0	390,0	252,0	47,0	252,0	251,0	62,0	345,0	332,0		

Proyecto 210
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 5{,}0 & 5{,}0 \\ 9{,}0 & 2{,}0 & 3{,}0 \\ 1{,}0 & 2{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

142,0	78,0	59,0	205,0	114,0	79,0	361,0	240,0	148,0	281,0	174,0	115,0	241,0
158,0	99,0	395,0	264,0	169,0	338,0	295,0	93,0	308,0	270,0	55,0	378,0	318,0
123,0	265,0	159,0	145,0	164,0	75,0	71,0	280,0	159,0	139,0	389,0	282,0	127,0
215,0	133,0	113,0	195,0	108,0	71,0	34,0	20,0	13,0	413,0	329,0	131,0	205,0
175,0	67,0	115,0	74,0	35,0	363,0	310,0	113,0	418,0	327,0	125,0	219,0	108,0
115,0	309,0	228,0	118,0	355,0	264,0	118,0	106,0	92,0	21,0	251,0	138,0	122,0
104,0	48,0	41,0	348,0	303,0	105,0	85,0	66,0	31,0	302,0	219,0	76,0	218,0
167,0	86,0	307,0	240,0	116,0	327,0	216,0	127,0	513,0	380,0	193,0		

Proyecto 211
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 8{,}0 & 9{,}0 \\ 3{,}0 & 8{,}0 & 8{,}0 \\ 4{,}0 & 9{,}0 & 6{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

234,0	199,0	212,0	414,0	297,0	337,0	146,0	139,0	154,0	486,0	326,0	371,0	423,0
375,0	371,0	332,0	287,0	281,0	329,0	252,0	276,0	549,0	422,0	429,0	413,0	339,0
327,0	158,0	127,0	143,0	423,0	305,0	343,0	206,0	175,0	197,0	135,0	98,0	111,0
331,0	242,0	266,0	558,0	425,0	433,0	324,0	267,0	297,0	301,0	205,0	222,0	260,0
187,0	159,0	409,0	233,0	237,0	592,0	409,0	414,0	474,0	297,0	306,0	162,0	117,0
127,0	450,0	419,0	397,0	533,0	353,0	360,0	213,0	187,0	151,0	114,0	59,0	69,0
414,0	297,0	337,0	490,0	373,0	348,0	273,0	241,0	231,0	340,0	225,0	262,0	231,0
138,0	137,0	414,0	387,0	373,0	430,0	395,0	358,0					

Proyecto 212
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

213

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 9{,}0 & 3{,}0 \\ 7{,}0 & 6{,}0 & 8{,}0 \\ 8{,}0 & 6{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

33,0	59,0	42,0	286,0	273,0	209,0	238,0	271,0	182,0	351,0	435,0	309,0	272,0
365,0	235,0	291,0	447,0	333,0	177,0	316,0	234,0	378,0	467,0	357,0	138,0	215,0
237,0	106,0	250,0	119,0	177,0	316,0	234,0	366,0	435,0	345,0	146,0	320,0	199,0
260,0	264,0	253,0	178,0	376,0	263,0	170,0	262,0	175,0	269,0	374,0	304,0	126,0
285,0	159,0	142,0	274,0	143,0	263,0	251,0	211,0	296,0	446,0	331,0	227,0	335,0
205,0	350,0	482,0	367,0	60,0	131,0	69,0	207,0	267,0	201,0	162,0	279,0	261,0
155,0	143,0	133,0	102,0	221,0	135,0	306,0	375,0	357,0	277,0	313,0	266,0	85,0
151,0	77,0	318,0	296,0	309,0	204,0	427,0	309,0					

Proyecto 213
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

214

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 1{,}0 & 8{,}0 \\ 1{,}0 & 8{,}0 & 1{,}0 \\ 8{,}0 & 5{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

193,0	93,0	188,0	153,0	167,0	210,0	360,0	81,0	283,0	394,0	101,0	305,0	55,0
117,0	90,0	96,0	224,0	184,0	45,0	100,0	77,0	209,0	118,0	231,0	366,0	66,0
276,0	281,0	246,0	295,0	191,0	61,0	178,0	172,0	170,0	194,0	365,0	154,0	271,0
404,0	260,0	392,0	202,0	62,0	196,0	334,0	188,0	338,0	249,0	242,0	283,0	166,0
122,0	164,0	337,0	79,0	242,0	366,0	66,0	276,0	185,0	234,0	259,0	105,0	170,0
155,0	247,0	131,0	236,0	151,0	25,0	126,0	208,0	143,0	189,0	340,0	47,0	257,0
222,0	145,0	185,0	205,0	182,0	211,0	318,0	60,0	258,0	83,0	120,0	119,0	234,0
36,0	134,0	375,0	138,0	321,0	242,0	242,0	248,0	326,0	268,0	298,0		

Proyecto 214
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

215

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 3,0 & 4,0 \\ 8,0 & 2,0 & 6,0 \\ 7,0 & 1,0 & 8,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

209,0	304,0	329,0	135,0	216,0	257,0	182,0	282,0	247,0	187,0	266,0	250,0	99,0
186,0	173,0	225,0	320,0	340,0	159,0	254,0	254,0	228,0	356,0	349,0	89,0	156,0
148,0	229,0	344,0	364,0	191,0	292,0	323,0	128,0	142,0	131,0	233,0	352,0	371,0
159,0	254,0	254,0	199,0	340,0	346,0	107,0	120,0	103,0	210,0	286,0	272,0	291,0
428,0	430,0	151,0	246,0	261,0	179,0	294,0	314,0	78,0	82,0	61,0	101,0	172,0
173,0	89,0	68,0	42,0	164,0	238,0	207,0	152,0	206,0	190,0	123,0	188,0	238,0
59,0	72,0	70,0	101,0	172,0	173,0	169,0	208,0	242,0	178,0	254,0	250,0	103,0
148,0	178,0	193,0	252,0	236,0	136,0	156,0	171,0	230,0	298,0	321,0		

Proyecto 215
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 4{,}0 & 2{,}0 \\ 2{,}0 & 9{,}0 & 3{,}0 \\ 2{,}0 & 7{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

30,0	27,0	41,0	158,0	311,0	345,0	82,0	97,0	171,0	216,0	273,0	345,0	166,0
136,0	138,0	158,0	154,0	252,0	184,0	171,0	147,0	196,0	117,0	145,0	134,0	90,0
92,0	84,0	132,0	174,0	242,0	346,0	392,0	284,0	297,0	341,0	244,0	237,0	201,0
104,0	71,0	103,0	140,0	217,0	297,0	166,0	136,0	138,0	142,0	130,0	196,0	212,0
165,0	145,0	284,0	297,0	341,0	208,0	140,0	246,0	164,0	140,0	150,0	200,0	168,0
266,0	32,0	53,0	65,0	104,0	75,0	129,0	194,0	166,0	264,0	90,0	152,0	134,0
126,0	196,0	248,0	176,0	310,0	332,0	148,0	198,0	256,0	84,0	45,0	59,0	216,0
273,0	345,0	300,0	356,0	386,0	144,0	269,0	345,0					

Proyecto 216
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 4{,}0 & 3{,}0 \\ 1{,}0 & 9{,}0 & 3{,}0 \\ 9{,}0 & 4{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

250,0	181,0	423,0	100,0	140,0	125,0	209,0	108,0	321,0	215,0	185,0	260,0	304,0
325,0	447,0	221,0	272,0	274,0	243,0	225,0	354,0	252,0	279,0	318,0	110,0	140,0
165,0	69,0	96,0	95,0	38,0	52,0	65,0	256,0	277,0	319,0	216,0	202,0	259,0
244,0	265,0	287,0	199,0	193,0	256,0	141,0	77,0	214,0	103,0	143,0	133,0	288,0
333,0	443,0	256,0	159,0	335,0	184,0	199,0	294,0	75,0	139,0	97,0	273,0	318,0
403,0	303,0	312,0	425,0	148,0	188,0	253,0	86,0	145,0	133,0	151,0	191,0	261,0
222,0	267,0	267,0	125,0	96,0	213,0	60,0	87,0	71,0	289,0	310,0	407,0	195,0
162,0	246,0	156,0	221,0	241,0	376,0	339,0	575,0					

Proyecto 217
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 7{,}0 & 8{,}0 \\ 8{,}0 & 9{,}0 & 1{,}0 \\ 7{,}0 & 1{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

320,0	175,0	263,0	229,0	173,0	148,0	153,0	156,0	180,0	155,0	190,0	140,0	316,0
307,0	238,0	288,0	401,0	249,0	144,0	253,0	201,0	367,0	419,0	322,0	289,0	263,0
130,0	90,0	95,0	105,0	220,0	325,0	154,0	341,0	292,0	191,0	335,0	240,0	368,0
231,0	207,0	219,0	287,0	259,0	182,0	217,0	254,0	58,0	290,0	220,0	197,0	200,0
65,0	179,0	295,0	180,0	343,0	251,0	322,0	173,0	267,0	104,0	249,0	215,0	190,0
197,0	184,0	253,0	91,0	341,0	397,0	233,0	103,0	126,0	28,0	297,0	399,0	192,0
121,0	152,0	148,0	236,0	297,0	158,0	208,0	261,0	265,0	167,0	134,0	203,0	65,0
100,0	74,0	313,0	396,0	280,0	347,0	254,0	422,0					

Proyecto 218
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 1{,}0 & 6{,}0 \\ 3{,}0 & 8{,}0 & 9{,}0 \\ 7{,}0 & 9{,}0 & 2{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

51,0	198,0	193,0	62,0	276,0	288,0	161,0	438,0	381,0	114,0	360,0	332,0	106,0
296,0	260,0	192,0	486,0	398,0	116,0	247,0	262,0	45,0	186,0	299,0	159,0	318,0
285,0	179,0	393,0	249,0	52,0	255,0	258,0	152,0	411,0	318,0	126,0	396,0	416,0
139,0	307,0	201,0	50,0	258,0	284,0	11,0	44,0	45,0	151,0	371,0	369,0	89,0
169,0	147,0	24,0	128,0	154,0	146,0	292,0	272,0	132,0	375,0	406,0	118,0	354,0
280,0	139,0	330,0	283,0	125,0	354,0	357,0	19,0	68,0	101,0	127,0	372,0	303,0
25,0	156,0	171,0	138,0	267,0	252,0	38,0	84,0	72,0	69,0	306,0	377,0	48,0
114,0	142,0	64,0	247,0	288,0	216,0	462,0	382,0					

Proyecto 219
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

220

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 5{,}0 & 9{,}0 \\ 5{,}0 & 5{,}0 & 3{,}0 \\ 5{,}0 & 3{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

180,0	130,0	119,0	333,0	239,0	200,0	98,0	88,0	61,0	405,0	277,0	243,0	342,0
214,0	250,0	275,0	165,0	202,0	263,0	185,0	166,0	468,0	282,0	323,0	356,0	200,0
262,0	119,0	93,0	72,0	342,0	242,0	208,0	149,0	123,0	90,0	108,0	78,0	65,0
271,0	185,0	170,0	477,0	287,0	328,0	243,0	189,0	150,0	259,0	163,0	165,0	257,0
107,0	200,0	394,0	202,0	262,0	532,0	298,0	363,0	438,0	240,0	291,0	135,0	89,0
86,0	369,0	215,0	286,0	485,0	269,0	327,0	204,0	80,0	174,0	105,0	63,0	62,0
333,0	239,0	200,0	448,0	226,0	333,0	228,0	132,0	172,0	280,0	198,0	163,0	222,0
112,0	151,0	153,0	143,0	94,0	509,0	227,0	370,0					

Proyecto 220
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 9{,}0 & 7{,}0 \\ 8{,}0 & 8{,}0 & 2{,}0 \\ 1{,}0 & 7{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

58,0	40,0	22,0	341,0	250,0	229,0	313,0	204,0	195,0	486,0	334,0	272,0	395,0
246,0	219,0	462,0	334,0	200,0	311,0	224,0	113,0	523,0	386,0	279,0	223,0	242,0
51,0	226,0	94,0	92,0	311,0	224,0	113,0	495,0	378,0	267,0	296,0	174,0	102,0
322,0	290,0	176,0	352,0	238,0	110,0	270,0	174,0	128,0	401,0	316,0	179,0	261,0
134,0	97,0	262,0	126,0	120,0	314,0	250,0	200,0	464,0	334,0	206,0	350,0	206,0
184,0	518,0	382,0	248,0	121,0	58,0	49,0	294,0	214,0	152,0	282,0	248,0	70,0
310,0	212,0	166,0	334,0	258,0	188,0	282,0	248,0	70,0	310,0	212,0	166,0	334,0
258,0	188,0	310,0	256,0	82,0	269,0	212,0	95,0	276,0	130,0	126,0		

Proyecto 221
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 8{,}0 & 4{,}0 \\ 1{,}0 & 4{,}0 & 8{,}0 \\ 6{,}0 & 2{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

202,0	209,0	164,0	138,0	93,0	86,0	242,0	145,0	112,0	274,0	209,0	168,0	290,0
307,0	317,0	226,0	221,0	192,0	194,0	127,0	161,0	354,0	327,0	343,0	242,0	175,0
263,0	202,0	131,0	119,0	82,0	47,0	175,0	132,0	192,0	225,0	88,0	128,0	172,0
236,0	280,0	243,0	316,0	320,0	351,0	260,0	250,0	218,0	246,0	213,0	267,0	138,0
159,0	273,0	308,0	250,0	250,0	62,0	85,0	75,0	134,0	85,0	79,0	134,0	229,0
245,0	282,0	165,0	232,0	182,0	109,0	113,0	194,0	169,0	170,0	134,0	73,0	89,0
110,0	127,0	248,0	206,0	211,0	198,0	230,0	193,0	185,0	126,0	159,0	276,0	132,0
150,0	216,0	184,0	248,0	224,0	290,0	319,0	395,0					

Proyecto 222
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

223

Matriz llave:

$$K = \begin{pmatrix} 8,0 & 8,0 & 1,0 \\ 6,0 & 5,0 & 3,0 \\ 9,0 & 2,0 & 9,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

205,0	156,0	207,0	265,0	182,0	173,0	270,0	229,0	379,0	290,0	251,0	419,0	124,0
88,0	73,0	259,0	174,0	126,0	107,0	75,0	60,0	265,0	189,0	222,0	255,0	222,0
384,0	344,0	267,0	324,0	187,0	142,0	199,0	233,0	176,0	200,0	259,0	241,0	406,0
435,0	342,0	450,0	209,0	154,0	208,0	377,0	284,0	362,0	340,0	255,0	288,0	185,0
146,0	188,0	219,0	202,0	361,0	255,0	222,0	384,0	332,0	231,0	216,0	205,0	145,0
130,0	257,0	200,0	269,0	123,0	98,0	155,0	206,0	171,0	237,0	240,0	215,0	389,0
198,0	175,0	298,0	130,0	147,0	288,0	249,0	204,0	330,0	155,0	109,0	100,0	99,0
116,0	254,0	385,0	270,0	294,0	419,0	346,0	481,0					

Proyecto 223
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

224

Matriz llave:

$$K = \begin{pmatrix} 3,0 & 7,0 & 2,0 \\ 2,0 & 1,0 & 1,0 \\ 2,0 & 6,0 & 1,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

201,0	70,0	145,0	81,0	42,0	47,0	217,0	77,0	167,0	228,0	71,0	176,0	75,0
45,0	50,0	232,0	76,0	171,0	148,0	61,0	106,0	229,0	88,0	168,0	76,0	38,0
53,0	216,0	80,0	155,0	159,0	64,0	109,0	201,0	43,0	163,0	219,0	82,0	157,0
148,0	61,0	106,0	154,0	78,0	103,0	175,0	38,0	143,0	266,0	77,0	207,0	310,0
106,0	231,0	119,0	55,0	80,0	136,0	65,0	90,0	143,0	29,0	119,0	81,0	40,0
55,0	194,0	30,0	165,0	213,0	67,0	167,0	200,0	57,0	157,0	70,0	34,0	39,0
151,0	36,0	116,0	121,0	28,0	98,0	263,0	71,0	201,0	123,0	26,0	101,0	153,0
44,0	114,0	248,0	59,0	194,0	76,0	33,0	48,0	229,0	77,0	167,0		

Proyecto 224
Nombre del alumno: _____

Matrícula: _____　　**Grupo:** _____　**Fecha de entrega:** _____

225

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 6,0 & 4,0 \\ 2,0 & 1,0 & 7,0 \\ 8,0 & 2,0 & 9,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

34,0	35,0	62,0	254,0	183,0	260,0	118,0	153,0	226,0	276,0	237,0	399,0	154,0
84,0	223,0	194,0	222,0	365,0	172,0	63,0	205,0	168,0	121,0	305,0	114,0	62,0
181,0	126,0	120,0	177,0	318,0	230,0	391,0	312,0	221,0	445,0	232,0	81,0	265,0
100,0	91,0	189,0	212,0	213,0	311,0	154,0	84,0	223,0	162,0	166,0	293,0	184,0
73,0	249,0	312,0	221,0	445,0	214,0	240,0	445,0	158,0	96,0	233,0	222,0	236,0
421,0	48,0	41,0	61,0	110,0	123,0	224,0	218,0	234,0	413,0	176,0	81,0	197,0
90,0	58,0	173,0	182,0	131,0	228,0	162,0	139,0	326,0	190,0	155,0	248,0	208,0
129,0	229,0	300,0	219,0	441,0	202,0	244,0	423,0					

Proyecto 225
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 8{,}0 & 3{,}0 \\ 8{,}0 & 7{,}0 & 5{,}0 \\ 4{,}0 & 6{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

217,0	259,0	200,0	210,0	203,0	158,0	262,0	293,0	186,0	409,0	448,0	302,0	186,0
199,0	158,0	315,0	297,0	200,0	287,0	277,0	196,0	243,0	242,0	130,0	305,0	350,0
238,0	239,0	240,0	150,0	286,0	306,0	220,0	265,0	244,0	194,0	298,0	328,0	232,0
205,0	201,0	156,0	280,0	269,0	214,0	59,0	74,0	58,0	239,0	222,0	186,0	327,0
310,0	230,0	324,0	355,0	230,0	351,0	334,0	242,0	364,0	361,0	266,0	290,0	307,0
254,0	107,0	105,0	64,0	233,0	238,0	126,0	55,0	61,0	48,0	185,0	182,0	118,0
269,0	272,0	226,0	222,0	253,0	166,0	59,0	74,0	58,0	313,0	353,0	252,0	172,0
211,0	138,0	294,0	337,0	230,0	311,0	368,0	230,0					

Proyecto 226
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2,0 & 2,0 & 5,0 \\ 4,0 & 8,0 & 6,0 \\ 5,0 & 5,0 & 6,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

191,0	310,0	302,0	53,0	150,0	113,0	122,0	208,0	214,0	81,0	230,0	196,0	197,0
418,0	356,0	107,0	302,0	235,0	147,0	306,0	270,0	120,0	324,0	261,0	79,0	170,0
139,0	44,0	108,0	84,0	35,0	66,0	55,0	117,0	322,0	260,0	83,0	242,0	201,0
97,0	298,0	236,0	93,0	238,0	200,0	81,0	142,0	144,0	58,0	156,0	119,0	209,0
426,0	360,0	105,0	242,0	230,0	140,0	268,0	233,0	50,0	140,0	99,0	184,0	396,0
330,0	176,0	396,0	336,0	133,0	246,0	209,0	73,0	162,0	124,0	138,0	252,0	215,0
89,0	282,0	216,0	113,0	194,0	185,0	154,0	264,0	255,0	191,0	334,0	302,0	69,0
146,0	153,0	160,0	308,0	283,0	249,0	482,0	434,0					

Proyecto 227
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2,0 & 5,0 & 9,0 \\ 6,0 & 7,0 & 8,0 \\ 4,0 & 4,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

313,0	330,0	203,0	207,0	235,0	142,0	126,0	183,0	117,0	116,0	181,0	113,0	263,0
344,0	211,0	199,0	342,0	213,0	83,0	198,0	129,0	285,0	421,0	262,0	245,0	291,0
172,0	73,0	108,0	69,0	145,0	256,0	157,0	296,0	349,0	209,0	310,0	377,0	239,0
199,0	259,0	162,0	245,0	301,0	182,0	164,0	219,0	127,0	262,0	300,0	182,0	211,0
202,0	125,0	284,0	331,0	211,0	182,0	283,0	173,0	276,0	275,0	171,0	186,0	239,0
149,0	127,0	202,0	121,0	261,0	377,0	230,0	76,0	105,0	61,0	209,0	335,0	204,0
90,0	151,0	97,0	173,0	264,0	161,0	273,0	395,0	248,0	109,0	164,0	97,0	186,0
201,0	123,0	298,0	393,0	239,0	390,0	499,0	313,0					

Proyecto 228
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

229

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 6{,}0 & 4{,}0 \\ 3{,}0 & 6{,}0 & 7{,}0 \\ 1{,}0 & 7{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

143,0	152,0	169,0	207,0	212,0	234,0	312,0	344,0	363,0	259,0	280,0	302,0	211,0
232,0	246,0	337,0	382,0	404,0	221,0	209,0	174,0	211,0	160,0	119,0	255,0	264,0
237,0	237,0	305,0	339,0	183,0	193,0	222,0	267,0	317,0	354,0	319,0	316,0	314,0
189,0	239,0	263,0	199,0	198,0	218,0	33,0	34,0	37,0	303,0	303,0	283,0	135,0
141,0	125,0	107,0	100,0	104,0	241,0	244,0	214,0	317,0	305,0	286,0	227,0	270,0
310,0	242,0	264,0	265,0	282,0	284,0	279,0	73,0	58,0	45,0	246,0	286,0	321,0
117,0	118,0	135,0	225,0	225,0	192,0	63,0	68,0	66,0	312,0	321,0	327,0	182,0
204,0	195,0	59,0	84,0	94,0	267,0	318,0	329,0	190,0	269,0	299,0		

Proyecto 229
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

230

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 8{,}0 & 8{,}0 \\ 7{,}0 & 5{,}0 & 9{,}0 \\ 7{,}0 & 1{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

49,0	62,0	30,0	323,0	259,0	60,0	307,0	269,0	63,0	451,0	436,0	143,0	383,0
373,0	108,0	391,0	460,0	215,0	254,0	331,0	171,0	461,0	465,0	182,0	113,0	213,0
194,0	236,0	276,0	83,0	254,0	331,0	171,0	429,0	429,0	174,0	266,0	346,0	153,0
250,0	248,0	129,0	290,0	402,0	209,0	248,0	272,0	103,0	324,0	377,0	191,0	251,0
311,0	118,0	268,0	296,0	87,0	279,0	236,0	77,0	396,0	458,0	209,0	343,0	348,0
103,0	444,0	488,0	215,0	121,0	143,0	48,0	259,0	268,0	107,0	185,0	302,0	214,0
285,0	286,0	100,0	291,0	280,0	109,0	233,0	344,0	223,0	161,0	172,0	54,0	316,0
408,0	199,0	267,0	256,0	61,0	271,0	296,0	135,0	321,0	455,0	248,0		

Proyecto 230
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 8{,}0 & 4{,}0 \\ 9{,}0 & 8{,}0 & 8{,}0 \\ 5{,}0 & 4{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

202,0	281,0	123,0	138,0	189,0	93,0	242,0	293,0	145,0	274,0	357,0	169,0	290,0
503,0	232,0	226,0	333,0	151,0	194,0	319,0	162,0	354,0	587,0	278,0	242,0	467,0
238,0	202,0	271,0	134,0	82,0	275,0	150,0	132,0	300,0	135,0	88,0	228,0	106,0
236,0	372,0	161,0	316,0	564,0	265,0	260,0	382,0	174,0	246,0	453,0	222,0	138,0
387,0	192,0	308,0	470,0	226,0	62,0	105,0	44,0	134,0	181,0	90,0	134,0	305,0
130,0	282,0	473,0	245,0	182,0	257,0	130,0	194,0	305,0	145,0	134,0	201,0	104,0
146,0	395,0	196,0	102,0	179,0	77,0	188,0	436,0	201,0	178,0	303,0	154,0	56,0
194,0	103,0	194,0	313,0	147,0	282,0	555,0	270,0	164,0	420,0	191,0		

Proyecto 231
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

232

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 4{,}0 & 7{,}0 \\ 4{,}0 & 5{,}0 & 3{,}0 \\ 4{,}0 & 1{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

361,0	212,0	152,0	243,0	112,0	108,0	323,0	213,0	141,0	320,0	217,0	133,0	192,0
97,0	93,0	385,0	236,0	160,0	286,0	163,0	127,0	406,0	242,0	178,0	167,0	90,0
78,0	401,0	232,0	172,0	337,0	182,0	146,0	199,0	167,0	71,0	409,0	236,0	176,0
286,0	163,0	127,0	369,0	190,0	170,0	167,0	144,0	60,0	353,0	247,0	143,0	505,0
314,0	214,0	274,0	143,0	123,0	326,0	167,0	147,0	119,0	113,0	41,0	187,0	98,0
86,0	123,0	142,0	34,0	283,0	199,0	119,0	255,0	183,0	103,0	217,0	98,0	94,0
198,0	138,0	74,0	124,0	102,0	46,0	253,0	200,0	92,0	274,0	143,0	123,0	83,0
46,0	34,0	365,0	211,0	155,0	399,0	212,0	176,0					

Proyecto 232
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

233

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 7{,}0 & 2{,}0 \\ 5{,}0 & 5{,}0 & 1{,}0 \\ 5{,}0 & 5{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

24,0	24,0	36,0	236,0	162,0	228,0	76,0	60,0	120,0	225,0	192,0	273,0	133,0
150,0	165,0	131,0	122,0	203,0	163,0	176,0	179,0	127,0	164,0	191,0	95,0	118,0
127,0	102,0	75,0	120,0	281,0	230,0	305,0	263,0	256,0	319,0	223,0	236,0	239,0
71,0	84,0	111,0	167,0	122,0	203,0	133,0	150,0	165,0	115,0	114,0	171,0	167,0
196,0	199,0	263,0	256,0	319,0	136,0	157,0	238,0	134,0	147,0	168,0	152,0	157,0
238,0	41,0	30,0	45,0	71,0	79,0	121,0	149,0	152,0	233,0	151,0	103,0	157,0
121,0	99,0	111,0	242,0	179,0	236,0	160,0	131,0	194,0	51,0	69,0	81,0	225,0
192,0	273,0	63,0	54,0	111,0	206,0	149,0	236,0					

Proyecto 233
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

234

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 8{,}0 & 1{,}0 \\ 2{,}0 & 7{,}0 & 9{,}0 \\ 5{,}0 & 9{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

133,0	337,0	349,0	168,0	197,0	244,0	100,0	239,0	294,0	199,0	400,0	481,0	140,0
237,0	262,0	199,0	187,0	283,0	193,0	213,0	290,0	79,0	84,0	170,0	137,0	344,0
392,0	115,0	146,0	216,0	172,0	300,0	353,0	229,0	226,0	292,0	164,0	326,0	377,0
161,0	199,0	243,0	234,0	271,0	332,0	35,0	104,0	104,0	223,0	236,0	288,0	245,0
258,0	343,0	140,0	291,0	361,0	251,0	264,0	358,0	256,0	325,0	409,0	240,0	389,0
424,0	51,0	55,0	89,0	65,0	88,0	168,0	39,0	75,0	81,0	101,0	116,0	170,0
219,0	200,0	256,0	181,0	203,0	282,0	65,0	101,0	146,0	200,0	328,0	423,0	59,0
96,0	142,0	185,0	386,0	446,0	133,0	356,0	393,0					

Proyecto 234
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

235

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 4{,}0 & 5{,}0 \\ 1{,}0 & 5{,}0 & 9{,}0 \\ 2{,}0 & 8{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

342,0	307,0	353,0	116,0	102,0	149,0	279,0	172,0	208,0	257,0	119,0	193,0	384,0
343,0	443,0	259,0	194,0	289,0	309,0	243,0	315,0	300,0	207,0	306,0	138,0	146,0
187,0	83,0	84,0	114,0	50,0	66,0	79,0	304,0	199,0	299,0	256,0	128,0	207,0
284,0	163,0	263,0	241,0	151,0	221,0	187,0	115,0	141,0	121,0	111,0	158,0	368,0
375,0	471,0	320,0	137,0	203,0	240,0	247,0	302,0	85,0	107,0	150,0	343,0	330,0
426,0	377,0	300,0	402,0	196,0	246,0	293,0	106,0	147,0	187,0	201,0	255,0	302,0
248,0	159,0	255,0	241,0	151,0	221,0	167,0	79,0	105,0	327,0	176,0	206,0	252,0
169,0	202,0	202,0	283,0	314,0	448,0	363,0	435,0					

Proyecto 235
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

236

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 9{,}0 & 3{,}0 \\ 1{,}0 & 4{,}0 & 3{,}0 \\ 2{,}0 & 3{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

209,0	134,0	235,0	189,0	105,0	149,0	114,0	54,0	102,0	148,0	64,0	88,0	281,0
139,0	193,0	303,0	122,0	149,0	147,0	46,0	73,0	339,0	153,0	215,0	283,0	145,0
167,0	69,0	32,0	59,0	255,0	101,0	103,0	310,0	163,0	208,0	210,0	122,0	246,0
179,0	92,0	153,0	259,0	133,0	175,0	256,0	118,0	104,0	236,0	131,0	190,0	103,0
80,0	161,0	162,0	103,0	228,0	268,0	115,0	130,0	142,0	105,0	212,0	168,0	87,0
142,0	219,0	92,0	85,0	345,0	156,0	187,0	124,0	56,0	48,0	322,0	130,0	126,0
156,0	85,0	150,0	213,0	114,0	203,0	298,0	124,0	114,0	156,0	85,0	150,0	213,0
114,0	203,0	313,0	139,0	149,0	249,0	152,0	263,0					

Proyecto 236
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 4{,}0 & 6{,}0 \\ 7{,}0 & 6{,}0 & 8{,}0 \\ 3{,}0 & 3{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

120,0	169,0	73,0	168,0	237,0	106,0	312,0	420,0	163,0	240,0	329,0	134,0	208,0
281,0	110,0	348,0	467,0	176,0	266,0	331,0	124,0	216,0	269,0	119,0	312,0	393,0
141,0	258,0	351,0	121,0	138,0	201,0	92,0	258,0	357,0	136,0	312,0	413,0	170,0
206,0	279,0	97,0	156,0	221,0	102,0	28,0	39,0	17,0	334,0	429,0	165,0	170,0
213,0	75,0	88,0	121,0	56,0	296,0	371,0	134,0	330,0	427,0	172,0	204,0	289,0
114,0	264,0	346,0	129,0	288,0	378,0	151,0	76,0	95,0	41,0	228,0	318,0	125,0
84,0	123,0	59,0	282,0	351,0	126,0	72,0	93,0	34,0	324,0	432,0	171,0	212,0
275,0	125,0	280,0	357,0	147,0	340,0	427,0	142,0					

Proyecto 237
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

238

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 4{,}0 & 4{,}0 \\ 8{,}0 & 2{,}0 & 2{,}0 \\ 3{,}0 & 3{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

132,0	86,0	99,0	272,0	212,0	156,0	76,0	42,0	57,0	332,0	270,0	183,0	220,0
130,0	204,0	176,0	108,0	162,0	204,0	150,0	132,0	328,0	236,0	249,0	228,0	150,0
204,0	96,0	68,0	60,0	276,0	214,0	162,0	120,0	80,0	78,0	88,0	68,0	51,0
212,0	162,0	132,0	336,0	244,0	252,0	192,0	132,0	126,0	200,0	160,0	123,0	152,0
112,0	144,0	292,0	254,0	180,0	380,0	298,0	267,0	324,0	270,0	207,0	104,0	80,0
66,0	216,0	112,0	234,0	352,0	284,0	237,0	100,0	54,0	132,0	88,0	80,0	42,0
272,0	212,0	156,0	284,0	202,0	249,0	140,0	82,0	138,0	236,0	194,0	123,0	160,0
136,0	105,0	120,0	64,0	90,0	268,0	242,0	147,0	336,0	276,0	258,0		

Proyecto 238
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

239

Matriz llave:

$$K = \begin{pmatrix} 1,0 & 2,0 & 5,0 \\ 2,0 & 1,0 & 4,0 \\ 1,0 & 4,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

25,0	23,0	27,0	120,0	81,0	174,0	131,0	94,0	171,0	196,0	152,0	248,0	178,0
137,0	216,0	184,0	164,0	212,0	128,0	121,0	138,0	194,0	157,0	248,0	38,0	61,0
44,0	141,0	117,0	143,0	128,0	121,0	138,0	174,0	141,0	228,0	151,0	137,0	153,0
81,0	69,0	123,0	159,0	153,0	161,0	121,0	101,0	139,0	140,0	127,0	170,0	146,0
127,0	148,0	149,0	121,0	159,0	98,0	70,0	146,0	185,0	163,0	215,0	168,0	132,0
196,0	197,0	169,0	239,0	70,0	59,0	72,0	112,0	92,0	140,0	137,0	133,0	167,0
46,0	32,0	82,0	96,0	75,0	114,0	73,0	59,0	127,0	77,0	70,0	113,0	47,0
52,0	55,0	119,0	118,0	151,0	104,0	76,0	132,0	222,0	195,0	272,0		

Proyecto 239
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3,0 & 8,0 & 8,0 \\ 1,0 & 8,0 & 2,0 \\ 4,0 & 2,0 & 7,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

160,0	98,0	117,0	202,0	168,0	101,0	233,0	95,0	216,0	281,0	119,0	248,0	147,0
121,0	60,0	255,0	227,0	95,0	123,0	103,0	49,0	167,0	119,0	115,0	225,0	81,0
219,0	386,0	262,0	222,0	118,0	64,0	103,0	251,0	179,0	137,0	373,0	181,0	277,0
443,0	279,0	287,0	111,0	63,0	101,0	305,0	197,0	209,0	354,0	254,0	194,0	203,0
131,0	125,0	252,0	98,0	223,0	225,0	81,0	219,0	290,0	238,0	138,0	215,0	175,0
95,0	230,0	140,0	161,0	74,0	28,0	79,0	259,0	157,0	164,0	329,0	179,0	250,0
167,0	151,0	63,0	201,0	105,0	135,0	410,0	268,0	243,0	339,0	201,0	214,0	127,0
111,0	53,0	305,0	89,0	299,0	451,0	287,0	251,0					

Proyecto 240
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 1{,}0 & 5{,}0 \\ 8{,}0 & 8{,}0 & 9{,}0 \\ 7{,}0 & 8{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

33,0	68,0	45,0	141,0	422,0	311,0	123,0	244,0	139,0	213,0	507,0	357,0	114,0
277,0	232,0	196,0	395,0	246,0	103,0	289,0	263,0	157,0	329,0	257,0	92,0	211,0
178,0	96,0	231,0	153,0	208,0	553,0	414,0	233,0	565,0	433,0	133,0	385,0	353,0
99,0	201,0	143,0	169,0	395,0	255,0	114,0	277,0	232,0	156,0	323,0	214,0	125,0
321,0	289,0	233,0	565,0	433,0	236,0	451,0	291,0	120,0	287,0	233,0	224,0	451,0
295,0	33,0	85,0	59,0	119,0	230,0	148,0	220,0	443,0	288,0	157,0	407,0	316,0
112,0	235,0	137,0	92,0	345,0	325,0	107,0	317,0	276,0	85,0	189,0	150,0	214,0
506,0	389,0	88,0	189,0	149,0	236,0	533,0	369,0					

Proyecto 241
Nombre del alumno: _____
Matrícula: _____　　Grupo: _____　Fecha de entrega: _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 8{,}0 & 3{,}0 \\ 1{,}0 & 6{,}0 & 4{,}0 \\ 2{,}0 & 4{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

192,0	185,0	301,0	185,0	143,0	140,0	157,0	123,0	224,0	279,0	224,0	355,0	171,0
149,0	192,0	220,0	143,0	127,0	217,0	154,0	153,0	108,0	49,0	75,0	210,0	181,0
317,0	144,0	93,0	119,0	221,0	181,0	252,0	240,0	179,0	145,0	223,0	187,0	284,0
180,0	141,0	145,0	255,0	199,0	190,0	54,0	55,0	95,0	234,0	183,0	155,0	267,0
194,0	177,0	204,0	158,0	264,0	276,0	197,0	183,0	294,0	224,0	244,0	285,0	251,0
308,0	62,0	37,0	43,0	98,0	45,0	85,0	50,0	45,0	63,0	120,0	79,0	89,0
231,0	179,0	146,0	142,0	97,0	83,0	120,0	79,0	89,0	267,0	227,0	254,0	183,0
120,0	123,0	212,0	179,0	221,0	238,0	171,0	245,0	219,0	210,0	329,0		

Proyecto 242
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

243

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 7{,}0 & 6{,}0 \\ 2{,}0 & 7{,}0 & 5{,}0 \\ 1{,}0 & 3{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

320,0	236,0	289,0	141,0	123,0	74,0	224,0	147,0	162,0	232,0	171,0	83,0	410,0
332,0	289,0	289,0	242,0	140,0	306,0	237,0	207,0	315,0	255,0	153,0	163,0	139,0
122,0	102,0	89,0	66,0	63,0	55,0	58,0	314,0	252,0	145,0	241,0	183,0	88,0
290,0	232,0	109,0	236,0	183,0	115,0	152,0	101,0	107,0	147,0	128,0	83,0	414,0
344,0	321,0	256,0	170,0	111,0	263,0	215,0	217,0	127,0	120,0	79,0	384,0	319,0
276,0	390,0	311,0	246,0	237,0	203,0	218,0	150,0	138,0	121,0	243,0	208,0	227,0
270,0	224,0	105,0	236,0	183,0	115,0	152,0	101,0	107,0	325,0	246,0	116,0	236,0
183,0	115,0	128,0	81,0	71,0	322,0	232,0	165,0	316,0	206,0	291,0		

Proyecto 243
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5,0 & 5,0 & 5,0 \\ 7,0 & 3,0 & 1,0 \\ 4,0 & 2,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

220,0	98,0	179,0	160,0	80,0	112,0	135,0	123,0	111,0	135,0	123,0	95,0	245,0
173,0	171,0	260,0	254,0	173,0	160,0	202,0	121,0	310,0	266,0	220,0	200,0	100,0
118,0	80,0	74,0	65,0	195,0	187,0	117,0	240,0	126,0	155,0	265,0	189,0	229,0
185,0	139,0	144,0	210,0	126,0	140,0	155,0	91,0	73,0	205,0	107,0	146,0	130,0
40,0	117,0	230,0	156,0	209,0	210,0	180,0	131,0	180,0	70,0	161,0	170,0	124,0
131,0	150,0	124,0	81,0	275,0	217,0	176,0	75,0	47,0	35,0	310,0	230,0	210,0
180,0	174,0	117,0	195,0	107,0	133,0	195,0	207,0	159,0	110,0	80,0	63,0	145,0
85,0	133,0	260,0	228,0	212,0	100,0	34,0	87,0	285,0	221,0	255,0		

Proyecto 244
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

245

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 3{,}0 & 3{,}0 \\ 7{,}0 & 4{,}0 & 2{,}0 \\ 7{,}0 & 4{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

81,0	103,0	133,0	116,0	153,0	183,0	197,0	246,0	366,0	156,0	197,0	275,0	132,0
165,0	243,0	216,0	263,0	413,0	165,0	237,0	321,0	147,0	239,0	245,0	189,0	255,0
381,0	152,0	159,0	315,0	97,0	123,0	147,0	161,0	183,0	303,0	204,0	281,0	359,0
122,0	131,0	251,0	110,0	149,0	167,0	19,0	25,0	31,0	210,0	289,0	397,0	102,0
137,0	209,0	62,0	89,0	95,0	180,0	247,0	361,0	213,0	301,0	385,0	130,0	145,0
235,0	163,0	208,0	316,0	185,0	252,0	336,0	51,0	81,0	87,0	145,0	168,0	264,0
61,0	81,0	87,0	171,0	237,0	345,0	44,0	57,0	87,0	156,0	236,0	242,0	133,0
194,0	224,0	95,0	132,0	186,0	239,0	326,0	434,0	119,0	109,0	283,0		

Proyecto 245
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 7{,}0 & 9{,}0 \\ 6{,}0 & 8{,}0 & 4{,}0 \\ 9{,}0 & 4{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

206,0	194,0	132,0	349,0	342,0	288,0	128,0	138,0	76,0	407,0	388,0	354,0	386,0
318,0	207,0	303,0	242,0	166,0	283,0	268,0	211,0	486,0	400,0	327,0	376,0	286,0
217,0	135,0	138,0	100,0	358,0	346,0	291,0	177,0	186,0	124,0	114,0	112,0	93,0
283,0	264,0	221,0	493,0	406,0	336,0	279,0	282,0	198,0	257,0	226,0	209,0	241,0
138,0	142,0	350,0	258,0	305,0	518,0	406,0	386,0	408,0	318,0	336,0	139,0	126,0
108,0	421,0	322,0	192,0	463,0	362,0	361,0	208,0	110,0	81,0	93,0	82,0	96,0
349,0	342,0	288,0	446,0	310,0	272,0	252,0	194,0	129,0	282,0	278,0	254,0	200,0
144,0	165,0	322,0	278,0	159,0	268,0	182,0	196,0	457,0	286,0	334,0		

Proyecto 246
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 7{,}0 & 8{,}0 \\ 1{,}0 & 6{,}0 & 9{,}0 \\ 2{,}0 & 3{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

60,0	45,0	21,0	300,0	280,0	122,0	291,0	283,0	116,0	461,0	408,0	177,0	384,0
362,0	148,0	461,0	348,0	165,0	321,0	228,0	111,0	494,0	402,0	186,0	218,0	54,0
66,0	251,0	253,0	92,0	321,0	228,0	111,0	462,0	366,0	174,0	321,0	263,0	112,0
285,0	185,0	106,0	377,0	271,0	128,0	271,0	233,0	100,0	389,0	272,0	139,0	286,0
258,0	102,0	279,0	277,0	104,0	275,0	230,0	109,0	461,0	353,0	166,0	349,0	332,0
133,0	503,0	389,0	184,0	132,0	126,0	48,0	281,0	228,0	105,0	324,0	177,0	105,0
273,0	174,0	93,0	279,0	277,0	104,0	348,0	244,0	122,0	279,0	167,0	94,0	228,0
199,0	95,0	452,0	396,0	174,0	596,0	438,0	216,0					

Proyecto 247
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

248

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 6{,}0 & 9{,}0 \\ 6{,}0 & 5{,}0 & 2{,}0 \\ 9{,}0 & 4{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

259,0	122,0	163,0	125,0	108,0	121,0	203,0	173,0	173,0	275,0	189,0	213,0	372,0
239,0	346,0	275,0	156,0	207,0	168,0	190,0	232,0	406,0	299,0	404,0	222,0	275,0
364,0	178,0	157,0	172,0	54,0	179,0	260,0	219,0	129,0	225,0	144,0	105,0	182,0
337,0	153,0	231,0	389,0	279,0	399,0	312,0	181,0	238,0	264,0	246,0	336,0	180,0
207,0	330,0	320,0	251,0	314,0	100,0	39,0	66,0	116,0	106,0	116,0	258,0	113,0
220,0	223,0	293,0	353,0	150,0	155,0	172,0	213,0	158,0	205,0	102,0	126,0	142,0
222,0	275,0	364,0	247,0	207,0	261,0	160,0	56,0	100,0	324,0	275,0	350,0	135,0
189,0	237,0	254,0	155,0	196,0	438,0	345,0	488,0					

Proyecto 248
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

249

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 6{,}0 & 4{,}0 \\ 8{,}0 & 5{,}0 & 5{,}0 \\ 4{,}0 & 6{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

254,0	322,0	227,0	138,0	194,0	113,0	236,0	331,0	231,0	250,0	317,0	238,0	102,0
185,0	98,0	282,0	350,0	255,0	186,0	267,0	172,0	276,0	386,0	258,0	98,0	160,0
93,0	274,0	362,0	247,0	218,0	292,0	191,0	200,0	205,0	191,0	278,0	370,0	251,0
186,0	267,0	172,0	214,0	336,0	195,0	170,0	178,0	165,0	288,0	349,0	273,0	366,0
476,0	339,0	166,0	243,0	148,0	194,0	287,0	172,0	132,0	135,0	131,0	110,0	172,0
101,0	170,0	148,0	169,0	224,0	293,0	219,0	212,0	257,0	203,0	126,0	164,0	99,0
86,0	94,0	81,0	110,0	172,0	101,0	226,0	238,0	199,0	86,0	94,0	81,0	110,0
172,0	101,0	226,0	238,0	199,0	140,0	151,0	139,0	222,0	252,0	193,0		

Proyecto 249
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

250

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 4{,}0 & 2{,}0 \\ 8{,}0 & 6{,}0 & 9{,}0 \\ 9{,}0 & 6{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

36,0	66,0	57,0	160,0	368,0	303,0	92,0	238,0	183,0	246,0	471,0	405,0	206,0
259,0	264,0	186,0	385,0	318,0	226,0	261,0	279,0	250,0	321,0	321,0	170,0	201,0
210,0	90,0	213,0	171,0	270,0	499,0	438,0	338,0	525,0	489,0	298,0	345,0	369,0
130,0	197,0	183,0	150,0	367,0	291,0	206,0	259,0	264,0	170,0	313,0	270,0	266,0
297,0	321,0	338,0	525,0	489,0	258,0	449,0	393,0	202,0	269,0	267,0	242,0	441,0
381,0	34,0	77,0	63,0	128,0	228,0	198,0	234,0	433,0	372,0	108,0	266,0	213,0
104,0	160,0	153,0	230,0	471,0	399,0	230,0	371,0	342,0	82,0	225,0	171,0	230,0
291,0	303,0	206,0	339,0	312,0	230,0	463,0	390,0					

Proyecto 250
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

251

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 2{,}0 & 8{,}0 \\ 3{,}0 & 7{,}0 & 9{,}0 \\ 2{,}0 & 3{,}0 & 7{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

250,0	342,0	235,0	96,0	202,0	109,0	196,0	260,0	183,0	298,0	426,0	286,0	148,0
240,0	149,0	86,0	206,0	105,0	108,0	227,0	123,0	68,0	111,0	70,0	272,0	363,0
254,0	96,0	165,0	100,0	202,0	313,0	200,0	88,0	231,0	112,0	234,0	341,0	226,0
102,0	204,0	113,0	128,0	276,0	147,0	80,0	105,0	74,0	96,0	237,0	118,0	118,0
270,0	140,0	226,0	315,0	215,0	124,0	279,0	146,0	178,0	339,0	193,0	232,0	390,0
237,0	34,0	64,0	37,0	80,0	115,0	78,0	50,0	76,0	49,0	68,0	129,0	74,0
64,0	201,0	90,0	108,0	219,0	121,0	76,0	115,0	75,0	132,0	183,0	126,0	62,0
140,0	73,0	172,0	205,0	154,0	288,0	349,0	260,0					

Proyecto 251
Nombre del alumno: _____
Matrícula: _____　　**Grupo:** _____　**Fecha de entrega:** _____

252

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 1{,}0 & 6{,}0 \\ 6{,}0 & 7{,}0 & 4{,}0 \\ 1{,}0 & 5{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

266,0	285,0	226,0	57,0	140,0	93,0	194,0	217,0	130,0	124,0	250,0	116,0	248,0
387,0	280,0	127,0	293,0	179,0	198,0	294,0	198,0	153,0	321,0	189,0	91,0	150,0
119,0	48,0	97,0	72,0	39,0	54,0	51,0	152,0	323,0	184,0	121,0	258,0	125,0
128,0	307,0	160,0	128,0	242,0	136,0	128,0	148,0	88,0	63,0	144,0	99,0	252,0
379,0	300,0	178,0	273,0	122,0	173,0	237,0	193,0	43,0	120,0	95,0	222,0	359,0
270,0	228,0	379,0	252,0	153,0	204,0	189,0	72,0	133,0	120,0	159,0	208,0	195,0
192,0	339,0	240,0	193,0	203,0	149,0	62,0	63,0	70,0	251,0	296,0	247,0	113,0
143,0	133,0	72,0	133,0	120,0	190,0	141,0	182,0					

Proyecto 252
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

253

Matriz llave:

$$K = \begin{pmatrix} 8,0 & 5,0 & 8,0 \\ 1,0 & 9,0 & 5,0 \\ 5,0 & 2,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

316,0	248,0	103,0	211,0	208,0	73,0	207,0	87,0	99,0	189,0	119,0	93,0	332,0
269,0	140,0	356,0	232,0	185,0	244,0	68,0	145,0	433,0	286,0	205,0	239,0	304,0
83,0	122,0	52,0	59,0	252,0	203,0	132,0	303,0	332,0	108,0	409,0	201,0	169,0
269,0	165,0	116,0	273,0	266,0	105,0	167,0	259,0	65,0	274,0	257,0	97,0	196,0
142,0	55,0	365,0	162,0	146,0	273,0	230,0	132,0	273,0	184,0	84,0	245,0	158,0
104,0	180,0	194,0	87,0	359,0	311,0	164,0	81,0	123,0	33,0	415,0	342,0	181,0
243,0	168,0	126,0	255,0	251,0	93,0	349,0	116,0	169,0	281,0	133,0	128,0	273,0
184,0	84,0	232,0	235,0	73,0	142,0	151,0	61,0	434,0	388,0	155,0		

Proyecto 253
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

254

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 2{,}0 & 9{,}0 \\ 2{,}0 & 1{,}0 & 7{,}0 \\ 4{,}0 & 8{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

108,0	59,0	176,0	144,0	72,0	256,0	360,0	195,0	352,0	252,0	136,0	304,0	236,0
128,0	240,0	414,0	232,0	376,0	379,0	157,0	204,0	276,0	73,0	208,0	444,0	207,0
240,0	315,0	210,0	268,0	99,0	57,0	236,0	279,0	177,0	316,0	360,0	160,0	352,0
253,0	164,0	212,0	126,0	58,0	248,0	26,0	13,0	40,0	437,0	196,0	308,0	247,0
116,0	124,0	80,0	30,0	128,0	424,0	192,0	224,0	411,0	173,0	332,0	198,0	134,0
280,0	336,0	173,0	256,0	348,0	159,0	304,0	98,0	29,0	72,0	234,0	147,0	296,0
54,0	27,0	152,0	411,0	183,0	204,0	96,0	48,0	64,0	378,0	189,0	360,0	100,0
65,0	144,0	297,0	141,0	324,0	410,0	240,0	232,0					

Proyecto 254
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

255

Matriz llave:

$$K = \begin{pmatrix} 6,0 & 1,0 & 8,0 \\ 3,0 & 6,0 & 6,0 \\ 1,0 & 7,0 & 8,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

88,0	153,0	171,0	165,0	237,0	232,0	30,0	105,0	121,0	215,0	264,0	247,0	201,0
285,0	338,0	169,0	219,0	258,0	134,0	198,0	206,0	287,0	330,0	359,0	233,0	261,0
302,0	51,0	99,0	104,0	173,0	243,0	240,0	57,0	135,0	146,0	53,0	78,0	77,0
144,0	192,0	194,0	293,0	333,0	360,0	105,0	207,0	222,0	152,0	165,0	161,0	207,0
147,0	168,0	279,0	195,0	174,0	350,0	327,0	335,0	294,0	243,0	231,0	75,0	93,0
94,0	233,0	315,0	390,0	322,0	285,0	283,0	169,0	141,0	182,0	65,0	51,0	38,0
165,0	237,0	232,0	320,0	291,0	329,0	145,0	183,0	220,0	142,0	183,0	167,0	159,0
114,0	107,0	145,0	249,0	302,0	214,0	159,0	163,0	419,0	405,0	434,0		

Proyecto 255
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 3{,}0 & 1{,}0 \\ 5{,}0 & 6{,}0 & 6{,}0 \\ 1{,}0 & 4{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

34,0	45,0	19,0	103,0	245,0	148,0	87,0	233,0	135,0	186,0	363,0	194,0	129,0
301,0	162,0	258,0	351,0	158,0	197,0	240,0	98,0	241,0	387,0	198,0	253,0	159,0
42,0	66,0	188,0	89,0	197,0	240,0	98,0	237,0	363,0	186,0	156,0	238,0	99,0
194,0	226,0	113,0	228,0	278,0	107,0	118,0	208,0	101,0	243,0	298,0	134,0	111,0
213,0	94,0	78,0	212,0	105,0	126,0	223,0	128,0	252,0	352,0	161,0	114,0	271,0
142,0	270,0	388,0	185,0	43,0	99,0	46,0	138,0	219,0	110,0	258,0	213,0	67,0
126,0	233,0	121,0	154,0	243,0	128,0	304,0	321,0	135,0	100,0	139,0	80,0	69,0
159,0	84,0	213,0	268,0	140,0	150,0	291,0	146,0	227,0	323,0	142,0		

Proyecto 256
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

257

Matriz llave:

$$K = \begin{pmatrix} 6,0 & 5,0 & 8,0 \\ 7,0 & 7,0 & 5,0 \\ 4,0 & 7,0 & 7,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

375,0	338,0	350,0	253,0	188,0	214,0	292,0	340,0	269,0	315,0	340,0	307,0	157,0
167,0	115,0	401,0	373,0	382,0	271,0	266,0	237,0	386,0	391,0	346,0	145,0	151,0
116,0	405,0	373,0	370,0	345,0	296,0	308,0	222,0	248,0	251,0	411,0	380,0	374,0
271,0	266,0	237,0	339,0	319,0	276,0	181,0	214,0	206,0	358,0	383,0	359,0	503,0
499,0	472,0	265,0	237,0	225,0	315,0	278,0	265,0	128,0	166,0	153,0	171,0	164,0
140,0	149,0	201,0	200,0	266,0	312,0	259,0	256,0	283,0	259,0	239,0	163,0	208,0
123,0	148,0	142,0	260,0	233,0	258,0	197,0	244,0	237,0	145,0	151,0	116,0	224,0
263,0	231,0	420,0	420,0	381,0	357,0	292,0	290,0					

Proyecto 257
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

258

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 6{,}0 & 7{,}0 \\ 4{,}0 & 4{,}0 & 7{,}0 \\ 1{,}0 & 7{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

37,0	44,0	14,0	317,0	266,0	212,0	163,0	172,0	46,0	312,0	321,0	168,0	109,0
151,0	88,0	233,0	265,0	76,0	112,0	147,0	120,0	114,0	187,0	64,0	69,0	113,0
56,0	162,0	153,0	81,0	351,0	339,0	228,0	294,0	335,0	188,0	154,0	195,0	168,0
88,0	123,0	36,0	278,0	265,0	130,0	109,0	151,0	88,0	177,0	209,0	68,0	106,0
163,0	112,0	294,0	335,0	188,0	220,0	293,0	59,0	122,0	161,0	89,0	240,0	293,0
83,0	60,0	55,0	34,0	116,0	150,0	33,0	239,0	289,0	82,0	223,0	194,0	131,0
117,0	104,0	107,0	354,0	329,0	218,0	92,0	83,0	71,0	95,0	131,0	44,0	304,0
269,0	161,0	263,0	305,0	110,0	122,0	107,0	134,0	297,0	279,0	138,0		

Proyecto 258
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 1{,}0 & 8{,}0 \\ 6{,}0 & 9{,}0 & 9{,}0 \\ 1{,}0 & 9{,}0 & 7{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

263,0	381,0	302,0	102,0	255,0	218,0	296,0	333,0	192,0	413,0	534,0	350,0	148,0
279,0	236,0	161,0	303,0	206,0	158,0	309,0	229,0	200,0	198,0	61,0	358,0	438,0
289,0	182,0	240,0	135,0	251,0	384,0	283,0	86,0	300,0	269,0	295,0	414,0	295,0
109,0	255,0	216,0	126,0	345,0	304,0	82,0	114,0	91,0	74,0	294,0	279,0	151,0
360,0	290,0	337,0	405,0	245,0	172,0	378,0	293,0	221,0	435,0	341,0	210,0	447,0
398,0	75,0	99,0	52,0	214,0	198,0	57,0	51,0	87,0	72,0	124,0	186,0	115,0
186,0	420,0	377,0	242,0	405,0	320,0	56,0	156,0	129,0	313,0	333,0	168,0	138,0
189,0	146,0	361,0	408,0	254,0	381,0	462,0	304,0					

Proyecto 259
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 9{,}0 & 8{,}0 \\ 2{,}0 & 2{,}0 & 9{,}0 \\ 1{,}0 & 8{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

354,0	299,0	307,0	165,0	65,0	141,0	220,0	178,0	173,0	230,0	85,0	172,0	468,0
281,0	403,0	325,0	127,0	270,0	336,0	207,0	282,0	345,0	144,0	282,0	195,0	115,0
173,0	122,0	60,0	107,0	79,0	55,0	73,0	340,0	137,0	275,0	245,0	87,0	187,0
308,0	101,0	243,0	250,0	113,0	200,0	150,0	117,0	118,0	173,0	74,0	149,0	488,0
309,0	431,0	238,0	125,0	171,0	309,0	212,0	274,0	161,0	66,0	145,0	448,0	264,0
391,0	434,0	240,0	365,0	293,0	209,0	269,0	192,0	109,0	177,0	301,0	218,0	277,0
320,0	120,0	263,0	112,0	81,0	79,0	262,0	113,0	214,0	237,0	197,0	179,0	166,0
142,0	155,0	321,0	293,0	276,0	373,0	319,0	324,0					

Proyecto 260
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 6{,}0 & 5{,}0 \\ 7{,}0 & 9{,}0 & 6{,}0 \\ 1{,}0 & 6{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

222,0	305,0	158,0	169,0	240,0	135,0	108,0	186,0	60,0	118,0	202,0	82,0	237,0
368,0	179,0	226,0	399,0	162,0	110,0	231,0	54,0	277,0	462,0	195,0	225,0	322,0
199,0	64,0	111,0	36,0	179,0	312,0	141,0	259,0	373,0	217,0	228,0	354,0	132,0
166,0	263,0	110,0	217,0	322,0	175,0	180,0	268,0	172,0	213,0	305,0	167,0	132,0
169,0	88,0	195,0	297,0	105,0	199,0	331,0	157,0	177,0	235,0	115,0	155,0	243,0
105,0	152,0	249,0	132,0	266,0	429,0	210,0	86,0	130,0	82,0	314,0	490,0	238,0
241,0	354,0	183,0	98,0	158,0	86,0	147,0	270,0	69,0	201,0	292,0	151,0	212,0
321,0	168,0	237,0	384,0	195,0	256,0	363,0	180,0					

Proyecto 261
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 9{,}0 & 9{,}0 \\ 4{,}0 & 4{,}0 & 3{,}0 \\ 3{,}0 & 5{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

222,0	99,0	144,0	313,0	143,0	195,0	493,0	224,0	357,0	405,0	183,0	279,0	333,0
151,0	239,0	543,0	243,0	405,0	306,0	170,0	232,0	252,0	159,0	150,0	378,0	195,0
300,0	421,0	170,0	339,0	284,0	124,0	174,0	448,0	188,0	330,0	465,0	231,0	315,0
331,0	136,0	265,0	295,0	137,0	177,0	50,0	23,0	32,0	441,0	226,0	323,0	201,0
104,0	163,0	151,0	75,0	89,0	351,0	185,0	277,0	450,0	234,0	312,0	383,0	157,0
273,0	377,0	178,0	285,0	415,0	206,0	291,0	90,0	55,0	56,0	407,0	172,0	291,0
176,0	79,0	102,0	324,0	174,0	258,0	97,0	47,0	75,0	342,0	183,0	198,0	287,0
151,0	183,0	151,0	87,0	107,0	621,0	295,0	467,0					

Proyecto 262
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 4{,}0 & 5{,}0 \\ 9{,}0 & 4{,}0 & 9{,}0 \\ 7{,}0 & 8{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

107,0	162,0	224,0	161,0	306,0	376,0	71,0	82,0	144,0	180,0	378,0	434,0	208,0
315,0	413,0	161,0	256,0	322,0	137,0	241,0	305,0	239,0	441,0	513,0	194,0	337,0
395,0	67,0	106,0	148,0	166,0	315,0	385,0	91,0	130,0	196,0	53,0	99,0	123,0
133,0	251,0	303,0	241,0	450,0	520,0	141,0	216,0	306,0	116,0	245,0	271,0	117,0
256,0	242,0	144,0	389,0	355,0	239,0	512,0	538,0	177,0	426,0	420,0	65,0	126,0
148,0	235,0	342,0	448,0	208,0	469,0	479,0	114,0	201,0	211,0	35,0	102,0	96,0
161,0	306,0	376,0	221,0	434,0	460,0	136,0	213,0	267,0	123,0	260,0	302,0	85,0
219,0	203,0	180,0	243,0	349,0	121,0	286,0	272,0	299,0	604,0	650,0		

Proyecto 263
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7{,}0 & 2{,}0 & 4{,}0 \\ 5{,}0 & 8{,}0 & 6{,}0 \\ 8{,}0 & 5{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

39,0	47,0	33,0	113,0	299,0	156,0	119,0	273,0	126,0	223,0	415,0	229,0	181,0
339,0	162,0	283,0	379,0	265,0	216,0	250,0	189,0	259,0	441,0	280,0	199,0	165,0
232,0	138,0	190,0	64,0	216,0	250,0	189,0	243,0	417,0	276,0	208,0	240,0	144,0
160,0	268,0	222,0	264,0	280,0	208,0	150,0	226,0	128,0	242,0	328,0	253,0	173,0
215,0	104,0	146,0	222,0	84,0	119,0	271,0	169,0	278,0	382,0	262,0	171,0	299,0
137,0	290,0	430,0	292,0	75,0	101,0	42,0	151,0	247,0	157,0	233,0	221,0	245,0
152,0	156,0	130,0	73,0	75,0	88,0	283,0	351,0	307,0	75,0	175,0	131,0	99,0
177,0	84,0	212,0	376,0	262,0	307,0	317,0	250,0					

Proyecto 264
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

265

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 8{,}0 & 8{,}0 \\ 6{,}0 & 2{,}0 & 1{,}0 \\ 3{,}0 & 2{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

281,0	56,0	107,0	189,0	62,0	59,0	293,0	88,0	85,0	357,0	96,0	117,0	503,0
155,0	191,0	333,0	84,0	123,0	319,0	131,0	101,0	587,0	193,0	211,0	467,0	209,0
155,0	271,0	89,0	83,0	275,0	169,0	91,0	300,0	99,0	126,0	228,0	88,0	94,0
372,0	81,0	150,0	564,0	189,0	210,0	382,0	98,0	140,0	453,0	177,0	159,0	387,0
183,0	147,0	470,0	154,0	160,0	105,0	21,0	45,0	181,0	61,0	55,0	305,0	83,0
137,0	473,0	208,0	145,0	257,0	95,0	77,0	305,0	98,0	107,0	201,0	83,0	59,0
347,0	176,0	131,0	327,0	90,0	123,0	345,0	107,0	119,0	479,0	160,0	163,0	401,0
121,0	133,0	207,0	103,0	73,0	460,0	131,0	182,0					

Proyecto 265
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 1{,}0 & 1{,}0 \\ 8{,}0 & 3{,}0 & 1{,}0 \\ 3{,}0 & 3{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

70,0	184,0	222,0	42,0	92,0	152,0	77,0	275,0	160,0	71,0	227,0	180,0	45,0
167,0	83,0	76,0	204,0	237,0	61,0	193,0	154,0	88,0	282,0	219,0	38,0	134,0
79,0	80,0	224,0	237,0	64,0	166,0	204,0	43,0	121,0	132,0	82,0	232,0	240,0
61,0	193,0	154,0	78,0	250,0	191,0	38,0	116,0	106,0	77,0	237,0	207,0	106,0
318,0	291,0	55,0	161,0	153,0	65,0	189,0	182,0	29,0	95,0	74,0	40,0	130,0
96,0	30,0	90,0	89,0	67,0	233,0	148,0	57,0	181,0	147,0	34,0	54,0	147,0
21,0	51,0	74,0	57,0	183,0	144,0	80,0	226,0	234,0	66,0	198,0	179,0	58,0
188,0	140,0	30,0	90,0	89,0	98,0	290,0	271,0					

Proyecto 266
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 7,0 & 7,0 & 8,0 \\ 7,0 & 2,0 & 1,0 \\ 3,0 & 1,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

60,0	27,0	18,0	372,0	83,0	74,0	216,0	61,0	58,0	447,0	168,0	117,0	243,0
163,0	79,0	349,0	135,0	101,0	253,0	176,0	79,0	289,0	206,0	103,0	185,0	139,0
65,0	204,0	54,0	48,0	487,0	177,0	119,0	497,0	250,0	143,0	337,0	230,0	103,0
177,0	104,0	59,0	349,0	90,0	83,0	243,0	163,0	79,0	285,0	127,0	85,0	281,0
214,0	95,0	497,0	250,0	143,0	398,0	204,0	130,0	252,0	158,0	80,0	398,0	184,0
122,0	75,0	20,0	17,0	203,0	100,0	65,0	391,0	177,0	119,0	147,0	38,0	29,0
303,0	150,0	81,0	351,0	181,0	103,0	292,0	203,0	106,0	298,0	97,0	72,0	307,0
116,0	73,0	398,0	172,0	98,0	173,0	118,0	59,0	421,0	143,0	109,0		

Proyecto 267
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

268

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 4{,}0 & 9{,}0 \\ 5{,}0 & 7{,}0 & 2{,}0 \\ 3{,}0 & 7{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

336,0	163,0	342,0	175,0	170,0	202,0	371,0	176,0	260,0	537,0	289,0	426,0	213,0
148,0	240,0	260,0	237,0	206,0	251,0	220,0	227,0	264,0	158,0	111,0	450,0	212,0
363,0	252,0	168,0	165,0	343,0	213,0	313,0	180,0	220,0	231,0	389,0	217,0	341,0
180,0	165,0	204,0	225,0	230,0	276,0	102,0	44,0	105,0	162,0	204,0	237,0	261,0
259,0	270,0	432,0	223,0	315,0	288,0	274,0	279,0	342,0	283,0	339,0	315,0	238,0
390,0	106,0	75,0	64,0	274,0	148,0	115,0	70,0	43,0	76,0	180,0	134,0	129,0
252,0	224,0	327,0	326,0	151,0	245,0	102,0	44,0	105,0	434,0	227,0	386,0	120,0
103,0	150,0	288,0	219,0	252,0	475,0	245,0	394,0	477,0	221,0	384,0		

Proyecto 268
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 2{,}0 & 4{,}0 \\ 6{,}0 & 7{,}0 & 5{,}0 \\ 9{,}0 & 8{,}0 & 2{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

240,0	312,0	297,0	70,0	143,0	163,0	192,0	231,0	257,0	160,0	251,0	326,0	252,0
408,0	429,0	158,0	298,0	352,0	204,0	309,0	336,0	186,0	327,0	390,0	90,0	159,0
159,0	52,0	101,0	107,0	34,0	59,0	51,0	188,0	328,0	397,0	158,0	259,0	333,0
172,0	308,0	389,0	152,0	247,0	298,0	128,0	157,0	176,0	74,0	148,0	165,0	244,0
404,0	401,0	208,0	278,0	357,0	162,0	255,0	246,0	50,0	124,0	129,0	224,0	379,0
391,0	244,0	395,0	437,0	134,0	223,0	195,0	68,0	142,0	131,0	138,0	228,0	197,0
148,0	284,0	353,0	152,0	247,0	298,0	112,0	137,0	168,0	206,0	235,0	293,0	138,0
156,0	160,0	64,0	80,0	107,0	280,0	314,0	309,0					

Proyecto 269
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 1{,}0 & 9{,}0 \\ 7{,}0 & 2{,}0 & 2{,}0 \\ 6{,}0 & 1{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

90,0	67,0	41,0	117,0	99,0	62,0	333,0	192,0	131,0	225,0	143,0	94,0	217,0
127,0	86,0	387,0	209,0	142,0	374,0	227,0	181,0	264,0	215,0	175,0	438,0	243,0
189,0	297,0	123,0	74,0	72,0	69,0	37,0	252,0	129,0	77,0	333,0	227,0	166,0
239,0	103,0	64,0	99,0	95,0	60,0	22,0	17,0	11,0	421,0	257,0	196,0	245,0
133,0	104,0	67,0	63,0	44,0	419,0	237,0	186,0	390,0	259,0	197,0	171,0	91,0
48,0	321,0	178,0	129,0	327,0	210,0	155,0	94,0	73,0	59,0	207,0	114,0	67,0
36,0	45,0	25,0	408,0	231,0	183,0	93,0	51,0	38,0	360,0	218,0	154,0	280,0
141,0	93,0	67,0	63,0	44,0	519,0	277,0	206,0					

Proyecto 270
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

271

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 3{,}0 & 1{,}0 \\ 3{,}0 & 1{,}0 & 8{,}0 \\ 9{,}0 & 1{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

64,0	73,0	108,0	103,0	108,0	225,0	50,0	27,0	34,0	111,0	137,0	297,0	104,0
186,0	234,0	77,0	154,0	199,0	83,0	98,0	175,0	118,0	233,0	360,0	86,0	206,0
280,0	45,0	36,0	67,0	104,0	116,0	234,0	63,0	42,0	73,0	34,0	35,0	72,0
79,0	102,0	191,0	119,0	236,0	369,0	93,0	78,0	135,0	63,0	107,0	203,0	31,0
180,0	253,0	56,0	198,0	374,0	108,0	269,0	452,0	78,0	213,0	390,0	37,0	54,0
99,0	107,0	230,0	261,0	93,0	241,0	421,0	30,0	166,0	192,0	19,0	38,0	93,0
103,0	108,0	225,0	84,0	275,0	392,0	62,0	136,0	168,0	80,0	85,0	200,0	32,0
117,0	210,0	102,0	190,0	216,0	115,0	254,0	333,0	101,0	328,0	519,0		

Proyecto 271
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

272

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 8{,}0 & 1{,}0 \\ 5{,}0 & 3{,}0 & 3{,}0 \\ 9{,}0 & 1{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

15,0	30,0	48,0	230,0	125,0	101,0	179,0	119,0	119,0	244,0	204,0	242,0	184,0
163,0	199,0	160,0	228,0	338,0	78,0	165,0	267,0	256,0	231,0	287,0	52,0	147,0
251,0	39,0	104,0	172,0	78,0	165,0	267,0	252,0	219,0	267,0	49,0	154,0	262,0
187,0	148,0	172,0	57,0	194,0	334,0	99,0	124,0	176,0	158,0	199,0	285,0	44,0
129,0	217,0	71,0	116,0	176,0	206,0	124,0	114,0	167,0	226,0	330,0	144,0	148,0
194,0	215,0	244,0	336,0	24,0	57,0	93,0	136,0	132,0	170,0	188,0	219,0	307,0
184,0	170,0	216,0	48,0	149,0	253,0	148,0	138,0	176,0	29,0	102,0	178,0	143,0
132,0	166,0	167,0	219,0	319,0	128,0	92,0	98,0	256,0	297,0	413,0		

Proyecto 272
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

273

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 6{,}0 & 8{,}0 \\ 3{,}0 & 1{,}0 & 8{,}0 \\ 9{,}0 & 4{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

244,0	163,0	217,0	136,0	61,0	133,0	214,0	74,0	185,0	278,0	138,0	249,0	390,0
280,0	427,0	272,0	177,0	261,0	208,0	103,0	247,0	438,0	284,0	479,0	294,0	172,0
391,0	194,0	82,0	187,0	134,0	92,0	263,0	234,0	207,0	288,0	166,0	149,0	224,0
322,0	243,0	312,0	422,0	297,0	480,0	310,0	199,0	298,0	312,0	201,0	381,0	246,0
204,0	375,0	346,0	197,0	362,0	94,0	78,0	93,0	128,0	53,0	125,0	258,0	244,0
301,0	294,0	134,0	365,0	174,0	70,0	181,0	228,0	139,0	241,0	128,0	49,0	145,0
210,0	178,0	343,0	262,0	180,0	267,0	260,0	151,0	265,0	204,0	157,0	331,0	166,0
147,0	234,0	62,0	38,0	101,0	276,0	169,0	379,0	430,0	328,0	535,0		

Proyecto 273
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

274

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 2{,}0 & 6{,}0 \\ 7{,}0 & 7{,}0 & 2{,}0 \\ 7{,}0 & 8{,}0 & 8{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

96,0	185,0	224,0	86,0	233,0	258,0	175,0	252,0	341,0	203,0	274,0	389,0	55,0
113,0	151,0	87,0	230,0	275,0	45,0	97,0	127,0	93,0	233,0	251,0	177,0	240,0
333,0	192,0	319,0	442,0	82,0	167,0	190,0	119,0	214,0	287,0	235,0	257,0	433,0
243,0	402,0	543,0	79,0	184,0	195,0	173,0	340,0	413,0	168,0	311,0	410,0	107,0
172,0	239,0	184,0	213,0	332,0	177,0	240,0	333,0	120,0	295,0	346,0	85,0	185,0
235,0	134,0	235,0	302,0	62,0	111,0	130,0	141,0	196,0	295,0	179,0	247,0	341,0
103,0	84,0	173,0	232,0	229,0	396,0	174,0	268,0	376,0	133,0	94,0	213,0	213,0
332,0	473,0	105,0	260,0	311,0	247,0	320,0	511,0					

Proyecto 274
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

275

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 1{,}0 & 6{,}0 \\ 7{,}0 & 9{,}0 & 9{,}0 \\ 8{,}0 & 8{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

289,0	476,0	367,0	215,0	290,0	197,0	264,0	396,0	385,0	245,0	430,0	380,0	185,0
185,0	188,0	301,0	519,0	407,0	245,0	340,0	294,0	340,0	495,0	434,0	153,0	177,0
169,0	329,0	511,0	407,0	283,0	422,0	319,0	118,0	332,0	277,0	337,0	518,0	415,0
245,0	340,0	294,0	335,0	405,0	351,0	99,0	276,0	241,0	260,0	495,0	427,0	403,0
657,0	551,0	241,0	319,0	258,0	289,0	376,0	302,0	64,0	206,0	189,0	169,0	206,0
181,0	41,0	259,0	229,0	218,0	372,0	353,0	186,0	359,0	317,0	187,0	273,0	167,0
62,0	178,0	139,0	192,0	348,0	309,0	263,0	392,0	339,0	313,0	342,0	304,0	233,0
297,0	254,0	197,0	343,0	234,0	289,0	441,0	413,0	405,0	585,0	481,0		

Proyecto 275
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 3{,}0 & 5{,}0 & 7{,}0 \\ 7{,}0 & 8{,}0 & 6{,}0 \\ 6{,}0 & 6{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

264,0	293,0	183,0	152,0	223,0	162,0	214,0	295,0	210,0	342,0	464,0	327,0	182,0
225,0	150,0	164,0	299,0	237,0	177,0	288,0	219,0	103,0	219,0	183,0	291,0	367,0
249,0	137,0	235,0	183,0	245,0	327,0	228,0	171,0	269,0	201,0	269,0	349,0	240,0
154,0	221,0	159,0	206,0	299,0	216,0	81,0	85,0	51,0	173,0	253,0	183,0	206,0
330,0	249,0	257,0	360,0	258,0	215,0	351,0	267,0	261,0	386,0	282,0	292,0	355,0
234,0	54,0	101,0	81,0	107,0	215,0	177,0	58,0	69,0	45,0	105,0	181,0	141,0
145,0	229,0	171,0	173,0	286,0	219,0	97,0	160,0	123,0	206,0	311,0	231,0	132,0
145,0	90,0	274,0	342,0	231,0	115,0	214,0	171,0	320,0	392,0	261,0		

Proyecto 276
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2,0 & 3,0 & 9,0 \\ 5,0 & 6,0 & 8,0 \\ 9,0 & 2,0 & 5,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

289,0	313,0	204,0	177,0	217,0	127,0	120,0	165,0	186,0	98,0	159,0	160,0	223,0
310,0	241,0	159,0	295,0	308,0	75,0	167,0	256,0	243,0	373,0	355,0	191,0	263,0
123,0	69,0	97,0	110,0	105,0	218,0	207,0	242,0	318,0	175,0	300,0	351,0	334,0
181,0	236,0	214,0	203,0	273,0	175,0	110,0	191,0	78,0	226,0	277,0	171,0	203,0
197,0	122,0	282,0	312,0	299,0	140,0	246,0	211,0	266,0	266,0	181,0	168,0	218,0
191,0	87,0	173,0	126,0	207,0	332,0	266,0	50,0	91,0	40,0	263,0	385,0	305,0
108,0	204,0	207,0	202,0	259,0	158,0	201,0	279,0	326,0	147,0	157,0	107,0	298,0
346,0	325,0	266,0	407,0	354,0	390,0	517,0	438,0					

Proyecto 277
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

278

Matriz llave:

$$K = \begin{pmatrix} 1,0 & 4,0 & 7,0 \\ 2,0 & 7,0 & 1,0 \\ 6,0 & 4,0 & 9,0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

110,0	137,0	135,0	148,0	204,0	183,0	262,0	237,0	372,0	208,0	220,0	279,0	176,0
164,0	247,0	298,0	244,0	423,0	145,0	103,0	308,0	82,0	139,0	219,0	198,0	117,0
375,0	259,0	162,0	336,0	137,0	195,0	150,0	253,0	219,0	318,0	220,0	244,0	351,0
201,0	128,0	266,0	134,0	202,0	165,0	24,0	31,0	31,0	217,0	184,0	388,0	107,0
56,0	206,0	64,0	102,0	91,0	180,0	108,0	353,0	209,0	215,0	372,0	214,0	206,0
249,0	202,0	155,0	318,0	202,0	201,0	330,0	32,0	47,0	79,0	224,0	213,0	276,0
80,0	129,0	87,0	165,0	93,0	336,0	52,0	36,0	87,0	231,0	240,0	351,0	162,0
85,0	278,0	76,0	32,0	99,0	274,0	157,0	407,0					

Proyecto 278
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 5{,}0 & 2{,}0 \\ 1{,}0 & 7{,}0 & 1{,}0 \\ 8{,}0 & 4{,}0 & 9{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

125,0	136,0	157,0	236,0	211,0	287,0	87,0	114,0	81,0	273,0	219,0	352,0	196,0
212,0	310,0	150,0	153,0	251,0	180,0	171,0	229,0	263,0	226,0	423,0	180,0	162,0
328,0	92,0	97,0	101,0	238,0	212,0	296,0	122,0	139,0	125,0	77,0	70,0	93,0
180,0	159,0	237,0	268,0	227,0	431,0	186,0	201,0	207,0	157,0	119,0	230,0	88,0
35,0	247,0	188,0	76,0	362,0	277,0	188,0	485,0	225,0	126,0	399,0	86,0	73,0
119,0	190,0	215,0	341,0	251,0	157,0	442,0	60,0	42,0	200,0	62,0	31,0	93,0
236,0	211,0	287,0	199,0	140,0	419,0	118,0	122,0	210,0	197,0	160,0	241,0	103,0
44,0	205,0	190,0	215,0	341,0	268,0	161,0	537,0					

Proyecto 279
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1,0 & 4,0 & 4,0 \\ 9,0 & 6,0 & 4,0 \\ 7,0 & 3,0 & 7,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

23,0	49,0	52,0	161,0	223,0	179,0	153,0	201,0	193,0	221,0	345,0	330,0	189,0
267,0	281,0	185,0	381,0	378,0	118,0	272,0	281,0	223,0	397,0	361,0	43,0	265,0
205,0	116,0	150,0	220,0	118,0	272,0	281,0	207,0	381,0	333,0	126,0	240,0	290,0
118,0	272,0	196,0	134,0	312,0	346,0	120,0	202,0	216,0	152,0	342,0	311,0	121,0
195,0	255,0	132,0	174,0	232,0	137,0	225,0	170,0	188,0	378,0	374,0	169,0	237,0
266,0	212,0	414,0	392,0	59,0	85,0	115,0	125,0	225,0	210,0	139,0	393,0	309,0
145,0	291,0	238,0	77,0	93,0	124,0	142,0	340,0	235,0	69,0	169,0	112,0	61,0
183,0	139,0	185,0	247,0	221,0	177,0	303,0	249,0	147,0	365,0	395,0		

Proyecto 280
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

281

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 7{,}0 & 2{,}0 \\ 2{,}0 & 8{,}0 & 3{,}0 \\ 1{,}0 & 5{,}0 & 6{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

169,0	119,0	91,0	219,0	183,0	115,0	225,0	136,0	136,0	247,0	164,0	170,0	112,0
126,0	95,0	225,0	235,0	158,0	96,0	107,0	79,0	212,0	141,0	87,0	213,0	123,0
132,0	305,0	292,0	245,0	149,0	85,0	61,0	205,0	197,0	158,0	242,0	223,0	247,0
377,0	323,0	274,0	163,0	85,0	52,0	313,0	233,0	176,0	297,0	280,0	221,0	163,0
149,0	128,0	193,0	137,0	159,0	213,0	123,0	132,0	281,0	256,0	173,0	180,0	185,0
135,0	217,0	167,0	137,0	97,0	45,0	37,0	187,0	180,0	168,0	310,0	236,0	215,0
121,0	69,0	60,0	273,0	239,0	256,0	104,0	119,0	103,0	234,0	201,0	159,0	265,0
225,0	247,0	237,0	193,0	227,0	237,0	193,0	227,0	347,0	343,0	322,0		

Proyecto 281
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

282

Matriz llave:

$$K = \begin{pmatrix} 4,0 & 3,0 & 5,0 \\ 9,0 & 3,0 & 2,0 \\ 1,0 & 9,0 & 3,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

236,0	225,0	230,0	160,0	125,0	92,0	187,0	307,0	204,0	199,0	258,0	244,0	103,0
191,0	41,0	252,0	246,0	267,0	173,0	226,0	142,0	246,0	327,0	225,0	94,0	154,0
57,0	256,0	270,0	235,0	218,0	207,0	176,0	137,0	135,0	248,0	260,0	279,0	236,0
173,0	226,0	142,0	218,0	296,0	129,0	112,0	127,0	210,0	225,0	270,0	297,0	318,0
372,0	333,0	169,0	195,0	115,0	201,0	230,0	130,0	79,0	101,0	170,0	110,0	153,0
68,0	90,0	92,0	247,0	169,0	259,0	216,0	161,0	204,0	221,0	150,0	84,0	93,0
133,0	193,0	174,0	90,0	171,0	36,0	151,0	154,0	186,0	195,0	285,0	108,0	97,0
70,0	90,0	230,0	249,0	146,0	188,0	121,0	172,0					

Proyecto 282
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

283

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 2{,}0 & 7{,}0 \\ 7{,}0 & 1{,}0 & 8{,}0 \\ 3{,}0 & 7{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

54,0	54,0	52,0	216,0	210,0	390,0	186,0	198,0	216,0	345,0	339,0	414,0	213,0
189,0	168,0	311,0	319,0	320,0	203,0	169,0	170,0	287,0	265,0	190,0	175,0	155,0
116,0	147,0	150,0	207,0	341,0	325,0	456,0	403,0	377,0	410,0	263,0	217,0	230,0
171,0	165,0	134,0	257,0	265,0	356,0	213,0	189,0	168,0	255,0	255,0	248,0	247,0
209,0	174,0	403,0	377,0	410,0	391,0	392,0	325,0	219,0	198,0	183,0	367,0	368,0
341,0	51,0	51,0	76,0	196,0	197,0	169,0	359,0	361,0	338,0	81,0	75,0	150,0
219,0	195,0	252,0	375,0	369,0	394,0	81,0	75,0	150,0	219,0	195,0	252,0	291,0
273,0	286,0	332,0	301,0	301,0	141,0	141,0	236,0	421,0	422,0	349,0		

Proyecto 283
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 8{,}0 & 2{,}0 & 7{,}0 \\ 7{,}0 & 3{,}0 & 6{,}0 \\ 8{,}0 & 6{,}0 & 3{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

253,0	233,0	193,0	120,0	128,0	172,0	304,0	270,0	252,0	427,0	389,0	379,0	152,0
150,0	156,0	199,0	199,0	275,0	187,0	188,0	247,0	229,0	204,0	237,0	359,0	322,0
287,0	205,0	190,0	221,0	262,0	247,0	254,0	115,0	134,0	211,0	302,0	279,0	270,0
125,0	131,0	169,0	150,0	164,0	226,0	77,0	70,0	53,0	97,0	118,0	185,0	185,0
195,0	273,0	350,0	315,0	306,0	209,0	216,0	297,0	250,0	251,0	310,0	216,0	220,0
236,0	87,0	81,0	99,0	239,0	210,0	231,0	51,0	49,0	47,0	143,0	136,0	167,0
195,0	202,0	227,0	245,0	228,0	213,0	126,0	111,0	114,0	345,0	321,0	309,0	81,0
85,0	101,0	219,0	213,0	255,0	389,0	353,0	325,0					

Proyecto 284
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6,0 & 3,0 & 2,0 \\ 7,0 & 8,0 & 5,0 \\ 7,0 & 6,0 & 4,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

195,0	340,0	295,0	78,0	162,0	131,0	169,0	257,0	233,0	176,0	289,0	252,0	237,0
454,0	379,0	175,0	339,0	280,0	192,0	345,0	294,0	201,0	372,0	312,0	84,0	176,0
143,0	53,0	113,0	91,0	28,0	64,0	51,0	205,0	374,0	315,0	176,0	298,0	257,0
197,0	354,0	299,0	160,0	281,0	240,0	114,0	175,0	158,0	80,0	167,0	135,0	221,0
446,0	367,0	211,0	318,0	287,0	141,0	280,0	232,0	56,0	139,0	107,0	211,0	421,0
347,0	239,0	443,0	373,0	110,0	242,0	195,0	63,0	156,0	121,0	112,0	247,0	199,0
179,0	341,0	283,0	109,0	154,0	143,0	154,0	283,0	238,0	192,0	266,0	249,0	113,0
171,0	156,0	65,0	92,0	85,0	219,0	332,0	303,0	109,0	245,0	198,0		

Proyecto 285
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 8{,}0 & 3{,}0 \\ 1{,}0 & 5{,}0 & 2{,}0 \\ 6{,}0 & 2{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

182,0	119,0	189,0	165,0	106,0	118,0	66,0	48,0	141,0	100,0	68,0	121,0	219,0
144,0	199,0	202,0	137,0	227,0	62,0	49,0	175,0	237,0	160,0	274,0	253,0	160,0
120,0	40,0	29,0	83,0	181,0	120,0	153,0	271,0	173,0	163,0	142,0	100,0	271,0
128,0	87,0	172,0	217,0	140,0	154,0	226,0	142,0	75,0	203,0	131,0	156,0	96,0
63,0	119,0	107,0	77,0	245,0	199,0	131,0	163,0	125,0	83,0	169,0	123,0	83,0
155,0	172,0	111,0	99,0	264,0	173,0	212,0	108,0	68,0	37,0	238,0	156,0	173,0
175,0	116,0	157,0	73,0	52,0	137,0	245,0	163,0	215,0	175,0	116,0	157,0	61,0
44,0	117,0	184,0	127,0	265,0	211,0	137,0	199,0					

Proyecto 286
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 3{,}0 & 7{,}0 \\ 4{,}0 & 3{,}0 & 7{,}0 \\ 9{,}0 & 8{,}0 & 2{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

95,0	101,0	181,0	126,0	136,0	271,0	249,0	277,0	382,0	190,0	208,0	323,0	166,0
184,0	259,0	286,0	316,0	401,0	167,0	221,0	311,0	97,0	151,0	341,0	219,0	273,0
333,0	246,0	256,0	241,0	111,0	113,0	233,0	231,0	241,0	301,0	214,0	256,0	431,0
192,0	202,0	197,0	112,0	122,0	267,0	21,0	23,0	43,0	228,0	282,0	407,0	120,0
150,0	175,0	56,0	66,0	151,0	202,0	256,0	321,0	215,0	269,0	439,0	188,0	190,0
255,0	203,0	235,0	300,0	201,0	241,0	376,0	37,0	55,0	115,0	201,0	209,0	284,0
63,0	65,0	155,0	189,0	243,0	303,0	54,0	64,0	79,0	124,0	160,0	380,0	150,0
174,0	194,0	203,0	239,0	274,0	282,0	308,0	383,0	332,0	386,0	501,0		

Proyecto 287
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

288

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 1{,}0 & 3{,}0 \\ 8{,}0 & 4{,}0 & 5{,}0 \\ 2{,}0 & 8{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

43,0	137,0	179,0	74,0	275,0	269,0	21,0	77,0	135,0	91,0	336,0	288,0	91,0
238,0	316,0	74,0	191,0	237,0	61,0	209,0	225,0	120,0	347,0	347,0	97,0	248,0
270,0	26,0	97,0	119,0	77,0	280,0	274,0	32,0	121,0	167,0	24,0	89,0	89,0
63,0	217,0	213,0	122,0	355,0	349,0	54,0	195,0	249,0	62,0	206,0	172,0	76,0
171,0	121,0	101,0	306,0	164,0	137,0	401,0	319,0	111,0	339,0	225,0	32,0	107,0
101,0	104,0	241,0	343,0	124,0	370,0	272,0	65,0	120,0	126,0	24,0	89,0	47,0
74,0	275,0	269,0	125,0	311,0	277,0	63,0	154,0	196,0	61,0	237,0	203,0	58,0
169,0	97,0	47,0	146,0	248,0	119,0	273,0	275,0					

Proyecto 288
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 9{,}0 & 7{,}0 \\ 8{,}0 & 3{,}0 & 2{,}0 \\ 2{,}0 & 8{,}0 & 5{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

64,0	35,0	34,0	343,0	115,0	283,0	315,0	104,0	252,0	504,0	204,0	361,0	405,0
151,0	297,0	504,0	264,0	289,0	347,0	199,0	176,0	553,0	251,0	371,0	277,0	227,0
83,0	234,0	89,0	151,0	347,0	199,0	176,0	525,0	243,0	351,0	324,0	169,0	171,0
350,0	185,0	221,0	396,0	233,0	187,0	286,0	129,0	183,0	441,0	241,0	250,0	279,0
129,0	161,0	270,0	101,0	183,0	324,0	130,0	247,0	504,0	259,0	295,0	360,0	136,0
257,0	558,0	277,0	343,0	127,0	53,0	79,0	312,0	144,0	205,0	342,0	246,0	131,0
226,0	141,0	101,0	115,0	83,0	47,0	336,0	243,0	122,0	324,0	137,0	224,0	352,0
158,0	243,0	385,0	203,0	251,0	671,0	349,0	399,0					

Proyecto 289
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1,0 & 3,0 & 1,0 \\ 8,0 & 9,0 & 1,0 \\ 9,0 & 1,0 & 2,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

86,0	274,0	195,0	36,0	98,0	123,0	86,0	383,0	271,0	94,0	353,0	216,0	27,0
173,0	189,0	99,0	318,0	208,0	60,0	247,0	208,0	93,0	378,0	295,0	29,0	152,0
148,0	91,0	314,0	240,0	68,0	220,0	189,0	86,0	265,0	87,0	92,0	322,0	249,0
60,0	247,0	208,0	61,0	280,0	286,0	74,0	242,0	85,0	111,0	393,0	218,0	129,0
468,0	322,0	49,0	191,0	185,0	56,0	219,0	220,0	60,0	203,0	65,0	32,0	148,0
147,0	83,0	252,0	38,0	86,0	353,0	219,0	83,0	301,0	164,0	33,0	60,0	82,0
85,0	305,0	192,0	37,0	88,0	70,0	97,0	364,0	164,0	48,0	174,0	145,0	65,0
245,0	211,0	106,0	359,0	168,0	65,0	212,0	200,0					

Proyecto 290
Nombre del alumno: _____
Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

291

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 1{,}0 & 3{,}0 \\ 1{,}0 & 7{,}0 & 7{,}0 \\ 5{,}0 & 5{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

113,0	278,0	166,0	57,0	180,0	138,0	143,0	182,0	184,0	200,0	320,0	286,0	69,0
206,0	132,0	99,0	166,0	198,0	91,0	189,0	185,0	114,0	55,0	153,0	166,0	271,0
221,0	100,0	117,0	155,0	122,0	251,0	199,0	56,0	215,0	169,0	140,0	267,0	211,0
59,0	180,0	136,0	71,0	250,0	184,0	34,0	85,0	47,0	46,0	225,0	155,0	90,0
236,0	210,0	165,0	227,0	225,0	102,0	239,0	225,0	119,0	287,0	241,0	97,0	344,0
206,0	43,0	44,0	68,0	118,0	55,0	149,0	23,0	64,0	40,0	70,0	97,0	119,0
43,0	218,0	152,0	78,0	71,0	105,0	91,0	189,0	185,0	138,0	111,0	177,0	43,0
124,0	104,0	94,0	149,0	107,0	139,0	118,0	182,0	220,0	405,0	347,0		

Proyecto 291
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 6{,}0 & 8{,}0 & 6{,}0 \\ 7{,}0 & 7{,}0 & 8{,}0 \\ 6{,}0 & 6{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

348,0	412,0	411,0	160,0	157,0	141,0	250,0	294,0	282,0	270,0	274,0	237,0	456,0
490,0	465,0	330,0	327,0	291,0	342,0	372,0	351,0	360,0	363,0	324,0	180,0	191,0
183,0	114,0	116,0	108,0	68,0	75,0	75,0	360,0	362,0	321,0	280,0	281,0	243,0
336,0	330,0	285,0	270,0	278,0	249,0	170,0	198,0	189,0	166,0	165,0	150,0	456,0
494,0	477,0	296,0	320,0	285,0	288,0	319,0	312,0	142,0	137,0	126,0	426,0	454,0
432,0	438,0	464,0	432,0	256,0	285,0	285,0	164,0	170,0	165,0	262,0	293,0	294,0
420,0	446,0	423,0	284,0	322,0	321,0	104,0	123,0	114,0	396,0	447,0	441,0	144,0
147,0	141,0	288,0	303,0	279,0	386,0	447,0	441,0	270,0	323,0	339,0		

Proyecto 292
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 2{,}0 & 5{,}0 & 2{,}0 \\ 9{,}0 & 5{,}0 & 6{,}0 \\ 9{,}0 & 5{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

124,0	267,0	348,0	109,0	186,0	228,0	63,0	204,0	231,0	81,0	192,0	207,0	158,0
316,0	361,0	164,0	373,0	388,0	76,0	269,0	272,0	187,0	432,0	474,0	161,0	216,0
252,0	38,0	121,0	136,0	138,0	268,0	271,0	177,0	273,0	324,0	121,0	376,0	457,0
101,0	255,0	297,0	147,0	252,0	294,0	143,0	162,0	171,0	136,0	243,0	297,0	64,0
155,0	218,0	95,0	329,0	410,0	147,0	279,0	294,0	87,0	223,0	304,0	95,0	231,0
270,0	120,0	187,0	190,0	191,0	357,0	387,0	69,0	80,0	83,0	181,0	330,0	342,0
90,0	157,0	160,0	77,0	180,0	189,0	139,0	150,0	153,0	89,0	233,0	278,0	121,0
327,0	387,0	155,0	354,0	435,0	87,0	314,0	374,0	237,0	542,0	629,0		

Proyecto 293
Nombre del alumno: _____

Matrícula: _____ **Grupo:** _____ **Fecha de entrega:** _____

294

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 3{,}0 & 3{,}0 \\ 7{,}0 & 5{,}0 & 3{,}0 \\ 4{,}0 & 2{,}0 & 4{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

96,0	126,0	68,0	141,0	185,0	94,0	267,0	293,0	190,0	201,0	237,0	142,0	177,0
197,0	126,0	291,0	315,0	214,0	300,0	256,0	174,0	282,0	252,0	136,0	324,0	282,0
204,0	177,0	203,0	160,0	102,0	154,0	74,0	186,0	230,0	154,0	309,0	321,0	190,0
147,0	165,0	128,0	135,0	179,0	86,0	24,0	30,0	16,0	345,0	323,0	212,0	177,0
151,0	112,0	87,0	103,0	50,0	315,0	271,0	194,0	348,0	336,0	206,0	135,0	187,0
118,0	243,0	241,0	166,0	285,0	287,0	178,0	96,0	86,0	48,0	165,0	211,0	134,0
66,0	100,0	44,0	306,0	258,0	186,0	69,0	65,0	46,0	303,0	321,0	206,0	207,0
243,0	150,0	330,0	316,0	184,0	405,0	401,0	274,0					

Proyecto 294
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

295

Matriz llave:

$$K = \begin{pmatrix} 7,0 & 6,0 & 3,0 \\ 2,0 & 3,0 & 5,0 \\ 4,0 & 4,0 & 4,0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

158,0	89,0	112,0	304,0	134,0	196,0	106,0	55,0	72,0	356,0	153,0	228,0	251,0
181,0	200,0	194,0	142,0	156,0	231,0	115,0	156,0	345,0	212,0	256,0	237,0	175,0
192,0	116,0	54,0	76,0	307,0	139,0	200,0	152,0	72,0	100,0	99,0	44,0	64,0
233,0	113,0	156,0	352,0	214,0	260,0	234,0	114,0	156,0	207,0	102,0	140,0	126,0
116,0	116,0	261,0	139,0	184,0	372,0	219,0	272,0	306,0	165,0	216,0	112,0	56,0
76,0	244,0	208,0	212,0	339,0	192,0	244,0	85,0	111,0	96,0	84,0	32,0	52,0
304,0	134,0	196,0	270,0	207,0	224,0	153,0	121,0	128,0	256,0	103,0	160,0	143,0
82,0	104,0	205,0	143,0	160,0	234,0	196,0	204,0					

Proyecto 295
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 1{,}0 & 5{,}0 & 2{,}0 \\ 2{,}0 & 5{,}0 & 5{,}0 \\ 1{,}0 & 1{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

16,0	31,0	16,0	162,0	202,0	67,0	137,0	192,0	75,0	193,0	283,0	116,0	154,0
240,0	105,0	145,0	247,0	116,0	83,0	161,0	83,0	200,0	290,0	117,0	44,0	74,0
33,0	63,0	148,0	86,0	83,0	161,0	83,0	192,0	270,0	105,0	73,0	168,0	96,0
129,0	158,0	50,0	81,0	184,0	104,0	91,0	156,0	74,0	131,0	205,0	89,0	68,0
158,0	91,0	83,0	168,0	90,0	143,0	175,0	56,0	149,0	250,0	116,0	129,0	215,0
100,0	179,0	280,0	122,0	34,0	76,0	43,0	109,0	163,0	68,0	56,0	119,0	64,0
118,0	179,0	76,0	135,0	183,0	68,0	64,0	139,0	76,0	71,0	131,0	65,0	101,0
183,0	91,0	86,0	194,0	109,0	107,0	198,0	100,0					

Proyecto 296
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 6{,}0 & 3{,}0 \\ 7{,}0 & 6{,}0 & 9{,}0 \\ 4{,}0 & 8{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

154,0	265,0	186,0	116,0	155,0	144,0	194,0	233,0	248,0	218,0	305,0	272,0	255,0
462,0	293,0	182,0	305,0	218,0	183,0	258,0	219,0	313,0	520,0	367,0	249,0	384,0
287,0	169,0	220,0	211,0	129,0	216,0	135,0	129,0	291,0	135,0	96,0	216,0	98,0
187,0	361,0	217,0	287,0	509,0	329,0	210,0	348,0	252,0	237,0	390,0	273,0	171,0
342,0	177,0	266,0	404,0	320,0	49,0	106,0	55,0	113,0	146,0	141,0	123,0	312,0
125,0	274,0	373,0	328,0	159,0	204,0	197,0	168,0	267,0	200,0	123,0	156,0	151,0
246,0	423,0	276,0	131,0	152,0	167,0	111,0	210,0	129,0	275,0	431,0	329,0	210,0
357,0	248,0	101,0	122,0	127,0	285,0	540,0	315,0					

Proyecto 297
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____   **Fecha de entrega:** _____

298

Matriz llave:

$$K = \begin{pmatrix} 4{,}0 & 1{,}0 & 4{,}0 \\ 5{,}0 & 5{,}0 & 1{,}0 \\ 1{,}0 & 8{,}0 & 1{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

93,0	130,0	93,0	79,0	166,0	167,0	169,0	174,0	81,0	187,0	188,0	101,0	34,0
79,0	117,0	59,0	163,0	224,0	28,0	68,0	100,0	100,0	166,0	118,0	171,0	165,0
66,0	147,0	221,0	246,0	89,0	118,0	61,0	91,0	149,0	170,0	182,0	172,0	154,0
203,0	279,0	260,0	93,0	131,0	62,0	163,0	239,0	188,0	131,0	217,0	242,0	85,0
119,0	122,0	161,0	144,0	79,0	171,0	165,0	66,0	99,0	209,0	234,0	60,0	130,0
170,0	121,0	164,0	131,0	69,0	78,0	25,0	107,0	134,0	143,0	157,0	152,0	47,0
115,0	128,0	145,0	108,0	158,0	182,0	91,0	211,0	232,0	115,0	110,0	83,0	161,0
155,0	110,0	175,0	167,0	160,0	133,0	92,0	103,0	141,0	177,0	260,0		

Proyecto 298
Nombre del alumno: _____

Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 5{,}0 & 9{,}0 \\ 1{,}0 & 2{,}0 & 1{,}0 \\ 9{,}0 & 6{,}0 & 3{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

68,0	9,0	45,0	342,0	77,0	237,0	240,0	31,0	123,0	468,0	78,0	324,0	270,0
43,0	249,0	394,0	51,0	237,0	268,0	50,0	276,0	344,0	44,0	294,0	214,0	31,0
201,0	207,0	36,0	126,0	486,0	93,0	363,0	532,0	88,0	426,0	352,0	68,0	366,0
208,0	26,0	156,0	358,0	60,0	210,0	270,0	43,0	249,0	322,0	43,0	213,0	312,0
52,0	318,0	532,0	88,0	426,0	473,0	54,0	312,0	279,0	44,0	246,0	457,0	58,0
300,0	74,0	14,0	48,0	239,0	28,0	156,0	448,0	57,0	291,0	387,0	56,0	282,0
322,0	43,0	249,0	153,0	56,0	174,0	278,0	41,0	195,0	387,0	56,0	276,0	435,0
70,0	288,0	279,0	70,0	216,0	509,0	58,0	336,0					

Proyecto 299
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 9{,}0 & 6{,}0 & 1{,}0 \\ 8{,}0 & 5{,}0 & 4{,}0 \\ 5{,}0 & 2{,}0 & 9{,}0 \end{pmatrix} \quad (\text{mód } 29)$$

Cadena cifrada:

144,0	208,0	292,0	165,0	159,0	117,0	237,0	265,0	277,0	351,0	391,0	403,0	131,0
155,0	171,0	292,0	256,0	144,0	251,0	232,0	155,0	262,0	235,0	150,0	252,0	305,0
356,0	230,0	217,0	158,0	231,0	256,0	259,0	210,0	187,0	106,0	241,0	278,0	301,0
160,0	158,0	124,0	215,0	207,0	151,0	36,0	59,0	92,0	176,0	163,0	104,0	275,0
251,0	159,0	290,0	317,0	318,0	302,0	275,0	174,0	300,0	295,0	232,0	193,0	231,0
257,0	106,0	96,0	62,0	252,0	233,0	164,0	38,0	48,0	58,0	174,0	161,0	110,0
172,0	147,0	68,0	257,0	238,0	161,0	159,0	168,0	159,0	397,0	347,0	193,0	165,0
191,0	209,0	236,0	269,0	288,0	236,0	295,0	356,0					

Proyecto 300
Nombre del alumno: _____
Matrícula: _____   **Grupo:** _____ **Fecha de entrega:** _____

Matriz llave:

$$K = \begin{pmatrix} 5{,}0 & 6{,}0 & 4{,}0 \\ 1{,}0 & 5{,}0 & 9{,}0 \\ 6{,}0 & 2{,}0 & 5{,}0 \end{pmatrix} \quad \text{(mód 29)}$$

Cadena cifrada:

257,0	307,0	267,0	121,0	102,0	73,0	191,0	172,0	206,0	212,0	119,0	161,0	341,0
343,0	273,0	252,0	194,0	163,0	258,0	243,0	219,0	276,0	207,0	192,0	133,0	146,0
99,0	85,0	84,0	56,0	49,0	66,0	39,0	277,0	199,0	193,0	219,0	128,0	159,0
261,0	163,0	173,0	208,0	151,0	157,0	130,0	115,0	137,0	125,0	111,0	78,0	337,0
375,0	269,0	233,0	137,0	213,0	212,0	247,0	180,0	105,0	107,0	54,0	317,0	330,0
244,0	331,0	300,0	260,0	185,0	246,0	153,0	119,0	147,0	77,0	189,0	255,0	158,0
297,0	285,0	219,0	182,0	203,0	196,0	59,0	97,0	57,0	267,0	328,0	253,0	201,0
181,0	197,0	181,0	90,0	155,0	182,0	241,0	144,0	401,0	413,0	357,0		