```
In [1]:
import os
import pandas as pd
import numpy as np
import warnings
warnings.filterwarnings('ignore')
import datetime
import dsp
```

Daily selection

```
In [2]:
df_prediccion = dsp.load_data(tbl="tbl_stevehudson_soccer")
df=dsp.daily_prediction(df_prediccion)
dsp.correcion_horario(df)
```

Out[2]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
27	06:00	18/04/2021	soccer/latvia_optibet-virsliga	Metta/LU	RFS	9.89	6.38	1.20	1-RFS--3.16
28	06:00	18/04/2021	soccer/serbia_super-liga	Zlatibor Cajetina	Rad Beograd	10.75	5.15	1.21	2-Rad Beograd--1.53
26	12:05	18/04/2021	soccer/croatia_1-hnl	D. Zagreb	Istra 1961	1.17	6.52	14.84	1-Istra 1961--1.62

```
In [3]:
df_prediccion = dsp.load_data(tbl="tbl_prediccion_premium_ou")
df=dsp.daily_prediction_criterio(df_prediccion)
df['objetivo'] = df['objetivo']-5
dsp.correcion_horario(df)
```

Out[3]:

	date	hora	sport	area	league	team1	team2	objetivo	odd	criterio	outcome
36	17/04/2021	19:30	basketball	usa	nba	Boston Celtics	Golden State Warriors	227.5	1.58	100	OVER

```
In [4]:
df_prediccion = dsp.load_data(tbl="tbl_prediccion_premium_ou_base")
df=dsp.daily_prediction_criterio(df_prediccion)
df['objetivo'] = df['objetivo']-2
dsp.correcion_horario(df)
```

Out[4]:

date	hora	sport	area	league	team1	team2	objetivo	odd	criterio	outcome

```
In [5]:
df_prediccion = dsp.load_data(tbl="tbl_prediccion_premium_ou_hockey")
df=dsp.daily_prediction_criterio(df_prediccion)
df['objetivo'] = df['objetivo']-1
dsp.correcion_horario(df)
```

Out[5]:

	date	hora	sport	area	league	team1	team2	objetivo	odd	criterio	outcome
3	17/04/2021	18:00	hockey	usa	nhl	Winnipeg Jets	Edmonton Oilers	6.0	1.4	100	OVER
4	18/04/2021	17:30	hockey	usa	nhl	Philadelphia Flyers	New York Islanders	5.5	1.4	100	OVER

In [6]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_premium_ou_soccer")
df=dsp.daily_prediction_criterio(df_prediccion)
df['objetivo'] = df['objetivo']-1
dsp.correcion_horario(df)
```

Out[6]:

	date	hora	sport	area	league	team1	team2	objetivo	odd	criterio	outcome
12	18/04/2021	06:00	soccer	serbia	super-liga	Novi Pazar	Cukaricki	2.50	1.35	100	OVER
10	18/04/2021	09:15	soccer	spain	laliga	Atl. Madrid	Eibar	2.25	1.31	100	UNDER
11	18/04/2021	13:45	soccer	italy	serie-a	Napoli	Inter	2.50	1.33	100	OVER

In [7]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_0")
df = dsp.daily_prediction_model(df_prediccion)
dsp.correcion_horario(df)
```

Out[7]:

	hora	date	area	league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo	Rating	auc
671	07:00	18/04/2021	soccer@czech-republic	1-liga	Brno	FK Pardubice	2.01	3.36	3.68	TEAM2	- 74.500149	56
651	10:00	18/04/2021	soccer@austria	tipico-bundesliga	Rapid Vienna	Sturm Graz	1.76	3.96	4.22	TEAM2	74.667647	56

In [8]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_0")
df = dsp.daily_prediction_model(df_prediccion,min_auc=0,min_games=4)
dsp.correcion_horario(df)
```

Out[8]:

	hora	date	area	league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo	Ratir
626	19:00	17/04/2021	soccer@paraguay	primera-division	River Plate	Sol de America	2.13	3.35	3.24	TEAM2	134.6465
678	00:00	18/04/2021	soccer@south-korea	k-league-1	Suwon Bluewings	Ulsan Hyundai	3.48	3.17	2.17	TEAM1	287.0263
620	00:00	18/04/2021	soccer@south-korea	k-league-1	Suwon Bluewings	Ulsan Hyundai	3.48	3.17	2.17	TEAM2	287.0263
611	06:00	18/04/2021	soccer@serbia	super-liga	Metalac	FK Indjija	2.16	3.24	3.19	TEAM2	53.6630
697	06:30	18/04/2021	soccer@germany	2-bundesliga	Bochum	Hannover	1.91	3.65	3.93	TEAM1	231.5256
698	06:30	18/04/2021	soccer@germany	2-bundesliga	Regensburg	Heidenheim	2.82	3.25	2.56	TEAM1	131.4632
699	06:30	18/04/2021	soccer@germany	2-bundesliga	VfL Osnabruck	Dusseldorf	3.91	3.47	1.96	TEAM1	290.6055
671	07:00	18/04/2021	soccer@czech-republic	1-liga	Brno	FK Pardubice	2.01	3.36	3.68	TEAM2	-74.5001
645	07:30	18/04/2021	soccer@austria	tipico-bundesliga	Wolfsberger AC	Tirol	2.12	3.49	3.35	TEAM1	-53.1193
642	08:00	18/04/2021	soccer@turkey	super-lig	Gaziantep	Kasimpasa	2.27	3.33	3.22	TEAM2	105.2999

	hora	date	area	league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo	Ratin
617	09:00	18/04/2021	soccer@czech republic	1-liga	Slovan Liberec	Slavia Prague	4.50	3.55	1.78	TEAM1	275.1885
651	10:00	18/04/2021	soccer@austria	tipico-bundesliga	Rapid Vienna	Sturm Graz	1.76	3.96	4.22	TEAM2	74.66764
635	12:00	18/04/2021	soccer@serbia	super-liga	Proleter	Mladost	2.86	3.04	2.44	TEAM1	293.87510
602	16:45	18/04/2021	soccer@paraguay	primera-division	Cerro Porteno	Libertad Asuncion	2.62	3.14	2.65	TEAM1	-29.07021
619	16:45	18/04/2021	soccer@paraguay	primera-division	Cerro Porteno	Libertad Asuncion	2.62	3.14	2.65	DRAW	-29.07021

In [9]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_premium_magic")
df = dsp.daily_prediction_criterio(df_prediccion)
dsp.correcion_horario(df)
```

Out[9]:

	date	hora	sport	area	league	team1	team2	objetivo	odd	m_criterio
688	17/04/2021	21:00	soccer	costa-rica	primera-division	Herediano	Cartagines	X1	1.91	100.0
685	18/04/2021	07:30	soccer	tunisia	ligue-professionnelle-1	Sfaxien	Etoile Sahel	X1	2.38	234.0
687	18/04/2021	10:00	soccer	hungary	merkantil-bank-liga	Budaorsi SC	Kazincbarcikai	X1	1.83	100.0
684	18/04/2021	12:00	soccer	mexico	liga-mx	U.N.A.M.- Pumas	U.A.N.L.- Tigres	X2	2.16	100.0
686	18/04/2021	13:45	soccer	italy	serie-a	Napoli	Inter	X2	2.45	156.0

NHL CLUSTER FALLO

In [10]:

```
df_prediccion = dsp.load_data(tbl="tbl_fallo_nhl")
dsp.daily_prediction(df_prediccion)
```

Out[10]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
365	0:0	2021-04-18	hockey/usa_nhl	Boston Bruins	Washington Capitals	2.31	4.19	2.67	1
366	0:0	2021-04-18	hockey/usa_nhl	Philadelphia Flyers	New York Islanders	2.83	4.20	2.20	2
367	0:0	2021-04-18	hockey/usa_nhl	New Jersey Devils	New York Rangers	3.56	4.51	1.85	1

TAN!! SPECIAL SELECTION

In [11]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machinTAN")
df=dsp.daily_prediction(df_prediccion)
dsp.correcion_horario(df)
```

Out[11]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
2222	05:30	18/04/2021	/soccer/italy/serie-a/ac-milan-genoa-fuDcO0va/	AC Milan	Genoa	1.47	4.62	7.02	TEAM1
2226	07:30	18/04/2021	/soccer/austria/tipico-bundesliga/salzburg-las...	Salzburg	LASK	1.52	4.44	5.78	TEAM1
2223	08:00	18/04/2021	/soccer/italy/serie-a/lazio-benevento-nF9kQM9n/	Lazio	Benevento	1.39	4.94	8.46	TEAM1
2221	09:00	18/04/2021	/soccer/switzerland/super-league/young-boys-lu...	Young Boys	Lugano	1.43	4.44	7.41	TEAM1

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
2224	09:15	18/04/2021	/soccer/spain/laliga/atl-madrid-eibar-G8fQMf2g/	Atl. Madrid	Eibar	1.45	4.27	8.78	TEAM1
2225	10:00	18/04/2021	/soccer/england/premier-league/manchester-unit...	Manchester Utd	Burnley	1.37	5.13	8.91	TEAM1

In [12]:

```
df_prediccion = dsp.load_data(tbl="tbl_fallo_hockey")
dsp.daily_prediction(df_prediccion)
```

Out[12]:

hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo

Gana Favorito en ODDs finales.

In [13]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin_inversos")
dsp.daily_prediction(df_prediccion)
```

Out[13]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
157	09:00	2021-04-18	/soccer/taiwan/premier-league/cpc-corporation-...	CPC	NTUS	1.79	3.96	3.53	0.286204

GANA 1 si objetivo es mayor a 0.52, GANA 2 si es menor a 49

In [14]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin6_glicko")
dsp.daily_prediction(df_prediccion)
```

Out[14]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
22	13:30	2021-04-18	/soccer/austria/tipico-bundesliga/salzburg-las...	Salzburg	LASK	1.52	4.44	5.78	0.654495
23	15:00	2021-04-18	/soccer/sweden/division-1-norra/sylvia-sollent...	Sylvia	Sollentuna	2.32	3.58	2.63	0.469738

Premium

In [15]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_premium")
dsp.daily_prediction_criterio(df_prediccion)
```

Out[15]:

	date	hora	sport	area	league	team1	team2	objetivo	outcome	odd	m_criterio
1291	2021-04-18	16:00	soccer	england	premier-league	Manchester Utd	Burnley	TEAM1	1.000000	1.37	100

	date	hora	sport	area	league	team1	team2	objetivo	outcome	odd	m_criterio
1286	2021-04-18	14:00	soccer	germany	3-liga	Wehen	Unterhaching	X2	1.000000	3.89	100
1288	2021-04-18	11:30	soccer	italy	serie-a	AC Milan	Genoa	TEAM1	1.000000	1.47	100
1289	2021-04-18	14:00	soccer	italy	serie-a	Lazio	Benevento	TEAM1	1.000000	1.39	100
1287	2021-04-18	18:00	soccer	mexico	liga-mx	U.N.A.M.- Pumas	U.A.N.L.- Tigres	X2	1.000000	2.16	100
1290	2021-04-18	15:15	soccer	spain	laliga	Atl. Madrid	Eibar	TEAM1	1.000000	1.45	100
1292	2021-04-18	01:00	basketball	usa	nba	Washington Wizards	Detroit Pistons	OVER	0.761854	1.90	100
1293	2021-04-18	01:00	basketball	usa	nba	Chicago Bulls	Cleveland Cavaliers	OVER	0.727243	1.90	100
1294	2021-04-18	01:30	basketball	usa	nba	Boston Celtics	Golden State Warriors	OVER	0.661986	1.90	100
1295	2021-04-18	02:00	basketball	usa	nba	Milwaukee Bucks	Memphis Grizzlies	OVER	0.816944	1.90	100
1296	2021-04-18	03:00	basketball	usa	nba	Phoenix Suns	San Antonio Spurs	UNDER	0.155901	1.90	100

Criterio

In [16]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machinTAN_criterio")
dsp.daily_prediction_criterio(df_prediccion)
```

Out[16]:

	date	hora	sport	area	league	team1	team2	objetivo	odd	m_criterio
1299	2021-04-18	17:00	soccer	belgium	jupiler-league	Oostende	Cercle Brugge KSV	TEAM1	1.63	215
1300	2021-04-18	13:00	soccer	czech-republic	1-liga	Zlin	Pribram	TEAM1	1.56	185
1303	2021-04-18	16:30	soccer	romania	liga-1	CFR Cluj	Academica Clinceni	TEAM1	1.51	152
1301	2021-04-18	19:00	soccer	romania	liga-1	FCSB	FC Botosani	TEAM1	1.59	198
1302	2021-04-18	12:00	soccer	sweden	superettan	Osters	Landskrona	TEAM1	1.74	251

In [17]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machinTAN11")
dsp.daily_prediction(df_prediccion)
```

Out[17]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
1511	13:30	2021-04-18	/soccer/austria/tipico-bundesliga/salzburg-las...	Salzburg	LASK	1.52	4.44	5.78	TEAM1
1512	17:00	2021-04-18	/soccer/belgium/jupiler-league/oostende-cercle...	Oostende	Cercle Brugge KSV	1.63	4.12	5.13	TEAM1
1513	13:00	2021-04-18	/soccer/czech-republic/1-liga/zlin-pribram-xGK...	Zlin	Pribram	1.56	3.92	5.86	TEAM1
1514	12:00	2021-04-18	/soccer/germany/3-liga/ingolstadt-meppen-fmVnn...	Ingolstadt	Meppen	1.54	3.92	6.31	TEAM1
1516	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/nyiregyhaz...	Nyiregyhaza	Siofok	1.51	3.78	5.48	TEAM1
1515	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/pecsi-mfc-...	Pecsi MFC	Szeged	1.52	3.78	5.47	TEAM1
1517	18:30	2021-04-18	/soccer/israel/ligat-ha-al/maccabi-tel-aviv-as...	Maccabi Tel Aviv	Ashdod	1.42	4.39	6.80	TEAM1

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
1518	11:30	2021-04-18	/soccer/italy/serie-a/ac-milan-genoa-fuDcO0va/	AC Milan	Genoa	1.47	4.62	7.02	TEAM1
1519	16:30	2021-04-18	/soccer/poland/ekstraklasa/legia-cracovia-4z0Z...	Legia	Cracovia	1.44	4.09	8.39	TEAM1
1520	16:30	2021-04-18	/soccer/romania/liga-1/cfr-cluj-academica-clin...	CFR Cluj	Academica Clinceni	1.51	3.81	6.94	TEAM1
1521	19:00	2021-04-18	/soccer/romania/liga-1/fcsb-fc-botosani-8UmnZpFc/	FCSB	FC Botosani	1.59	3.70	5.91	TEAM1
1522	08:30	2021-04-18	/soccer/south-korea/k-league-1/jeonbuk-seongna...	Jeonbuk	Seongnam	1.54	3.79	6.50	TEAM1
1523	15:15	2021-04-18	/soccer/spain/laliga/atl-madrid-eibar-G8fQMf2g/	Atl. Madrid	Eibar	1.45	4.27	8.78	TEAM1
1524	12:00	2021-04-18	/soccer/sweden/superettan/osters-landskrona-YV...	Osters	Landskrona	1.74	3.33	5.22	TEAM1
1525	15:00	2021-04-18	/soccer/switzerland/super-league/young-boys-lu...	Young Boys	Lugano	1.43	4.44	7.41	TEAM1

In [18]:

```python
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machinTAN_criterio2")
dsp.daily_prediction_criterio(df_prediccion)
```

Out[18]:

date	hora	sport	area	league	team1	team2	objetivo	odd	m_criterio

In [19]:

```python
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machinTAN_criterio3")
dsp.daily_prediction_criterio(df_prediccion)
```

Out[19]:

date	hora	sport	area	league	team1	team2	objetivo	odd	m_criterio

OVER UNDER

In [20]:

```python
df_prediccion = dsp.load_data(tbl="tbl_prediccion_base1")
dsp.daily_prediction_criterio(df_prediccion)
```

Out[20]:

	date	hora	sport	area	league	team1	team2	objetivo	odd	criterio	outcome
1465	2021-04-18	19:45	soccer	italy	serie-a	Napoli	Inter	3.50	1.33	100	0.945532
1467	2021-04-18	15:00	soccer	malaysia	super-league	Melaka United	Selangor	3.50	1.34	100	0.700965
1468	2021-04-18	12:00	soccer	serbia	super-liga	Novi Pazar	Cukaricki	3.50	1.35	100	0.350226
1469	2021-04-18	18:00	soccer	serbia	super-liga	Sp. Subotica	Napredak	3.50	1.30	100	0.486796
1466	2021-04-18	15:15	soccer	spain	laliga	Atl. Madrid	Eibar	3.25	1.31	100	0.881234
1470	2021-04-18	15:00	soccer	sweden	division-1-norra	Sylvia	Sollentuna	4.00	1.29	100	0.844994
1463	2021-04-18	15:00	soccer	switzerland	super-league	Young Boys	Lugano	3.75	1.31	100	0.817323
1464	2021-04-18	15:00	soccer	switzerland	super-league	Basel	Servette	4.00	1.30	100	0.451920
1454	2021-04-18	00:05	baseball	usa	mlb	Texas Rangers	Baltimore Orioles	10.50	1.47	100	0.661952

	date	hora	sport	area	league	team1	team2	objetivo	odd	criterio	outcome
1452	2021-04-18	02:07	baseball	usa	mlb	Los Angeles Angels	Minnesota Twins	11.00	1.41	100	0.661777
1453	2021-04-18	02:10	baseball	usa	mlb	Seattle Mariners	Houston Astros	10.50	1.42	100	0.761605
1455	2021-04-18	01:00	basketball	usa	nba	Washington Wizards	Detroit Pistons	231.00	1.57	100	0.761854
1456	2021-04-18	01:00	basketball	usa	nba	Chicago Bulls	Cleveland Cavaliers	217.50	1.56	100	0.727243
1457	2021-04-18	01:30	basketball	usa	nba	Boston Celtics	Golden State Warriors	232.50	1.58	100	0.661986
1458	2021-04-18	02:00	basketball	usa	nba	Milwaukee Bucks	Memphis Grizzlies	243.00	1.57	100	0.816944
1459	2021-04-18	03:00	basketball	usa	nba	Phoenix Suns	San Antonio Spurs	231.50	1.58	100	0.155901
1460	2021-04-18	00:00	hockey	usa	nhl	Tampa Bay Lightning	Florida Panthers	6.50	1.46	100	0.310626
1461	2021-04-18	00:00	hockey	usa	nhl	Winnipeg Jets	Edmonton Oilers	7.00	1.40	100	0.721560
1462	2021-04-18	23:30	hockey	usa	nhl	Philadelphia Flyers	New York Islanders	6.50	1.40	100	0.776320

NBA

In [21]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin_nba")
dsp.daily_prediction(df_prediccion)
```

Out[21]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
744	18:00	2021-04-18	/basketball/usa/nba/atlanta-hawks-indiana-pace...	Atlanta Hawks	Indiana Pacers	1.55	0	2.61	0.568382
741	01:30	2021-04-18	/basketball/usa/nba/boston-celtics-golden-stat...	Boston Celtics	Golden State Warriors	1.59	0	2.46	0.611966
740	01:00	2021-04-18	/basketball/usa/nba/chicago-bulls-cleveland-ca...	Chicago Bulls	Cleveland Cavaliers	1.71	0	2.21	0.522519
746	20:30	2021-04-18	/basketball/usa/nba/miami-heat-brooklyn-nets-h...	Miami Heat	Brooklyn Nets	2.81	0	1.48	0.505238
742	02:00	2021-04-18	/basketball/usa/nba/milwaukee-bucks-memphis-gr...	Milwaukee Bucks	Memphis Grizzlies	1.28	0	3.89	0.579101
745	18:00	2021-04-18	/basketball/usa/nba/new-york-knicks-new-orlean...	New York Knicks	New Orleans Pelicans	1.72	0	2.20	0.581896
743	03:00	2021-04-18	/basketball/usa/nba/phoenix-suns-san-antonio-s...	Phoenix Suns	San Antonio Spurs	1.21	0	4.71	0.700290
739	01:00	2021-04-18	/basketball/usa/nba/washington-wizards-detroit...	Washington Wizards	Detroit Pistons	1.54	0	2.59	0.600259

NBA CLUSTER FALLO

In [22]:

```
df_prediccion = dsp.load_data(tbl="tbl_fallo_nba")
dsp.daily_prediction(df_prediccion)
```

Out[22]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
252	0:0	2021-04-18	basketball/usa_nba	Milwaukee Bucks	Memphis Grizzlies	1.25	0	4.10	2
253	0:0	2021-04-18	basketball/usa_nba	Phoenix Suns	San Antonio Spurs	1.23	0	4.32	2

NBA FALLO SIN FILTRO

In [23]:

```
df_prediccion = dsp.load_data(tbl="tbl_fallo2_nba")
dsp.daily_prediction(df_prediccion)
```

Out[23]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
473	0:0	2021-04-18	basketball/usa_nba	Boston Celtics	Golden State Warriors	1.52	0	2.59	2
474	0:0	2021-04-18	basketball/usa_nba	Washington Wizards	Detroit Pistons	1.49	0	2.68	2
475	0:0	2021-04-18	basketball/usa_nba	Milwaukee Bucks	Memphis Grizzlies	1.25	0	4.10	2
476	0:0	2021-04-18	basketball/usa_nba	Phoenix Suns	San Antonio Spurs	1.23	0	4.32	2

NHL

In [24]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin_nhl")
dsp.daily_prediction(df_prediccion)
```

Out[24]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
700	21:00	2021-04-18	/hockey/usa/nhl/anaheim-ducks-vegas-golden-kni...	Anaheim Ducks	Vegas Golden Knights	4.26	4.60	1.66	0.457571
697	17:00	2021-04-18	/hockey/usa/nhl/boston-bruins-washington-capit...	Boston Bruins	Washington Capitals	2.31	4.16	2.67	0.524170
699	20:00	2021-04-18	/hockey/usa/nhl/buffalo-sabres-pittsburgh-peng...	Buffalo Sabres	Pittsburgh Penguins	4.59	4.94	1.60	0.439454
691	00:00	2021-04-18	/hockey/usa/nhl/carolina-hurricanes-nashville-...	Carolina Hurricanes	Nashville Predators	1.89	4.31	3.41	0.538506
696	01:00	2021-04-18	/hockey/usa/nhl/dallas-stars-columbus-blue-jac...	Dallas Stars	Columbus Blue Jackets	1.80	4.28	3.75	0.609959
693	00:00	2021-04-18	/hockey/usa/nhl/detroit-red-wings-chicago-blac...	Detroit Red Wings	Chicago Blackhawks	2.94	4.16	2.10	0.571630
695	01:00	2021-04-18	/hockey/usa/nhl/minnesota-wild-san-jose-sharks...	Minnesota Wild	San Jose Sharks	1.87	4.40	3.39	0.617014
698	20:00	2021-04-18	/hockey/usa/nhl/new-jersey-devils-new-york-ran...	New Jersey Devils	New York Rangers	3.57	4.47	1.84	0.414157
701	23:30	2021-04-18	/hockey/usa/nhl/philadelphia-flyers-new-york-i...	Philadelphia Flyers	New York Islanders	2.81	4.16	2.21	0.430484
692	00:00	2021-04-18	/hockey/usa/nhl/tampa-bay-lightning-florida-pa...	Tampa Bay Lightning	Florida Panthers	1.98	4.28	3.14	0.574535
694	00:00	2021-04-18	/hockey/usa/nhl/winnipeg-jets-edmonton-oilers-...	Winnipeg Jets	Edmonton Oilers	2.27	4.26	2.64	0.578458

MLB

In [25]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin_base1")
dp = dsp.daily_prediction(df_prediccion)
dp.sort_values(by=['hora'],ascending=True)
```

Out[25]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
248	02:10	2021-04-18	/baseball/usa/mlb/seattle-mariners-houston-ast...	Seattle Mariners	Houston Astros	2.09	0	1.79	TEAM2

SOCCER

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin_soccer")
dsp.daily_prediction(df_prediccion)
```

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
237	13:30	2021-04-18	/soccer/england/premier-league/arsenal-fulham-...	Arsenal	Fulham	1.77	3.72	4.99	0.662082
238	16:00	2021-04-18	/soccer/england/premier-league/manchester-unit...	Manchester Utd	Burnley	1.37	5.13	8.91	0.721875
239	14:30	2021-04-18	/soccer/germany/bundesliga/dortmund-werder-bre...	Dortmund	Werder Bremen	1.39	5.24	7.80	0.616391

SOCCER CLUSTER FALLO

```
df_prediccion = dsp.load_data(tbl="tbl_fallo_soccer")
dsp.daily_prediction(df_prediccion)
```

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
185	0:0	2021-04-18	soccer/england_premier-league	Everton	Colo Colo	2.51	3.03	2.94	2
187	0:0	2021-04-18	soccer/england_premier-league	Leicester	Southampton	1.91	3.68	4.11	2
188	0:0	2021-04-18	soccer/england_premier-league	Arsenal	Fulham	1.77	3.72	4.99	2

SOCCER EMPATE SECUENCIA

```
df_prediccion = dsp.load_data(tbl="tbl_empate_soccer")
dsp.daily_prediction(df_prediccion)
```

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
520	09:30	2021-04-18	soccer/austria_2-liga	A. Klagenfurt	Grazer	1.58	4.07	5.19	3-A. Klagenfurt-0.17
525	22:00	2021-04-18	soccer/costa-rica_primera-division	ADR Jicaral	Grecia	1.99	3.33	3.62	1-ADR Jicaral-0.08
524	16:00	2021-04-18	soccer/england_premier-league	Manchester Utd	Burnley	1.37	5.13	8.91	4-Manchester Utd-0
528	16:00	2021-04-18	soccer/hungary_merkantil-bank-liga	Dorogi	Szolnoki MAV	2.28	3.24	2.83	2-Szolnoki MAV-0.27
523	15:00	2021-04-18	soccer/latvia_optibet-virsliga	Ventspils	FK Liepaja	3.27	3.22	2.09	2-Ventspils-0.01
519	00:00	2021-04-18	soccer/panama_lpf	Alianza	Herrera	3.26	3.04	2.20	1-Alianza-0.08
529	17:00	2021-04-18	soccer/russia_premier-league	Spartak Moscow	Ufa	1.40	4.67	8.50	4-Ufa-0.17

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
~~527~~	~~15:00~~	~~2021-04-18~~	~~soccer/switzerland_super league~~	~~Young Boys~~	~~Lugano~~	~~1.43~~	~~4.44~~	~~7.41~~	~~1-Lugano-0.08~~
521	12:00	2021-04-18	soccer/tanzania_ligi-kuu-bara	Polisi Tanzania	Tanzania Prisons	2.39	2.81	3.10	1-Polisi Tanzania-0.34
526	12:00	2021-04-18	soccer/tanzania_ligi-kuu-bara	Polisi Tanzania	Tanzania Prisons	2.39	2.81	3.10	2-Tanzania Prisons-0.2
522	14:00	2021-04-18	soccer/turkey_super-lig	Gaziantep	Kasimpasa	2.27	3.33	3.22	2-Gaziantep-0.08

MILAN - más negativo -77

In [29]:

```
df_prediccion = dsp.load_data(tbl="tbl_favorito_soccer_MILAN")
dsp.daily_prediction(df_prediccion)
```

Out[29]:

hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo

CRB - más positivo .49

In [30]:

```
df_prediccion = dsp.load_data(tbl="tbl_favorito_soccer_CRB")
dsp.daily_prediction(df_prediccion)
```

Out[30]:

hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo

LIGA MX

In [31]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin_mx1")
dsp.daily_prediction_criterio(df_prediccion)
```

Out[31]:

	date	hora	sport	area	league	team1	team2	objetivo	outcome	odd	m_criterio
183	2021-04-18	01:00	soccer	mexico	liga-mx	Guadalajara Chivas	Club Tijuana	TEAM1	0.625756	1.79	100
184	2021-04-18	03:05	soccer	mexico	liga-mx	Club America	Cruz Azul	TEAM1	0.525269	2.67	100
185	2021-04-18	18:00	soccer	mexico	liga-mx	U.N.A.M.- Pumas	U.A.N.L.- Tigres	TEAM1	0.563215	3.32	100

NFL

In [32]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin_nfl1")
dsp.daily_prediction_criterio(df_prediccion)
```

Out[32]:

date	hora	sport	area	league	team1	team2	objetivo	outcome	odd	m_criterio

HOCKEY

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin_hockey")
dsp.daily_prediction(df_prediccion)
```

Out[33]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
315	13:30	2021-04-18	/hockey/germany/del/adler-mannheim-krefeld-pin...	Adler Mannheim	Krefeld Pinguine	1.17	8.00	11.03	0.797560
318	13:30	2021-04-18	/hockey/germany/del/augsburger-panther-eisbare...	Augsburger Panther	Eisbaren Berlin	3.33	4.59	1.82	0.398017
319	13:30	2021-04-18	/hockey/germany/del/grizzly-wolfsburg-straubin...	Grizzly Wolfsburg	Straubing Tigers	2.25	4.27	2.58	0.586077
316	13:30	2021-04-18	/hockey/germany/del/iserlohn-roosters-erc-ingo...	Iserlohn Roosters	ERC Ingolstadt	2.59	4.49	2.19	0.597563
314	13:30	2021-04-18	/hockey/germany/del/munchen-dusseldorf-21l85atU/	Munchen	Dusseldorf	1.52	5.35	4.52	0.666972
317	13:30	2021-04-18	/hockey/germany/del/pinguins-bremerhaven-nurnb...	Bremerhaven	Nurnberg Ice Tigers	1.55	5.24	4.29	0.647529
313	13:30	2021-04-18	/hockey/germany/del/schwenninger-kolner-haie-8...	Schwenninger	Kolner	1.76	4.80	3.46	0.560772

Daily predictions machin3.

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin3")
dsp.daily_prediction(df_prediccion)
```

Out[34]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
679	17:30	2021-04-18	/soccer/czech-republic/1-liga/sparta-prague-sl...	Sparta Prague	Slovacko	1.67	3.73	5.03	TEAM1
678	13:00	2021-04-18	/soccer/czech-republic/1-liga/zlin-pribram-xGK...	Zlin	Pribram	1.56	3.92	5.86	TEAM1

Daily predictions machin6

Objetivo > .50 TEAM1 | Objetivo < .50 TEAM2

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin6")
dp = dsp.daily_prediction(df_prediccion)
dp.sort_values(by=['objetivo'],ascending=False)
```

Out[35]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
7160	16:00	2021-04-18	/soccer/england/premier-league/manchester-unit...	Manchester Utd	Burnley	1.37	5.13	8.91	0.721875
7164	01:30	2021-04-18	/soccer/usa/mls/nashville-sc-fc-cincinnati-OOE...	Nashville SC	FC Cincinnati	1.88	3.32	4.56	0.721555
7142	14:00	2021-04-18	/soccer/italy/serie-a/lazio-benevento-nF9kQM9n/	Lazio	Benevento	1.39	4.94	8.46	0.702481
7159	13:30	2021-04-18	/soccer/england/premier-league/arsenal-fulham-...	Arsenal	Fulham	1.77	3.72	4.99	0.662082
7184	15:15	2021-04-18	/soccer/sweden/division-1-...	Pitea	Hammarby TFF	2.85	3.63	2.15	0.659627

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
7151	10:10	04-18	norra/pitea-hammarby...	Pitea	Hammarby TFF	2.33	3.33	2.18	0.335327
7150	15:15	2021-04-18	/soccer/spain/laliga/atl-madrid-eibar-G8fQMf2g/	Atl. Madrid	Eibar	1.45	4.27	8.78	0.654925
7178	13:30	2021-04-18	/soccer/austria/tipico-bundesliga/salzburg-las...	Salzburg	LASK	1.52	4.44	5.78	0.654495
7141	11:30	2021-04-18	/soccer/italy/serie-a/ac-milan-genoa-fuDcO0va/	AC Milan	Genoa	1.47	4.62	7.02	0.631112
7138	15:00	2021-04-18	/soccer/switzerland/super-league/young-boys-lu...	Young Boys	Lugano	1.43	4.44	7.41	0.626700
7174	18:00	2021-04-18	/soccer/serbia/super-liga/tsc-backa-topola-fk-...	TSC Backa Topola	FK Vozdovac	1.82	3.50	3.99	0.624391
7167	22:30	2021-04-18	/soccer/usa/mls/columbus-crew-philadelphia-uni...	Columbus Crew	Philadelphia Union	1.89	3.68	3.96	0.597012
7180	16:00	2021-04-18	/soccer/austria/tipico-bundesliga/rapid-vienna...	Rapid Vienna	Sturm Graz	1.76	3.96	4.22	0.587305
7172	12:00	2021-04-18	/soccer/serbia/super-liga/metalac-indjija-ICqW...	Metalac	FK Indjija	2.16	3.24	3.19	0.570749
7149	15:15	2021-04-18	/soccer/spain/laliga/alaves-huesca-Kt1HOGXt/	Alaves	Huesca	2.52	3.10	3.15	0.568551
7157	15:00	2021-04-18	/soccer/portugal/primeira-liga/famalicao-porti...	Famalicao	Portimonense	2.22	3.25	3.43	0.562573
7143	14:00	2021-04-18	/soccer/italy/serie-a/atalanta-juventus-0hrbMv9B/	Atalanta	Juventus	2.32	3.59	3.05	0.562154
7144	14:00	2021-04-18	/soccer/italy/serie-a/bologna-spezia-pr9Z2j8j/	Bologna	Spezia	1.99	3.83	3.66	0.555558
7147	13:00	2021-04-18	/soccer/spain/laliga/osasuna-elche-ARwTtGgP/	Osasuna	Elche	2.01	3.19	4.38	0.548572
7154	20:00	2021-04-18	/soccer/spain/laliga/levante-villarreal-dOkolWGO/	Levante	Villarreal	4.04	3.44	2.00	0.536794
7179	13:30	2021-04-18	/soccer/austria/tipico-bundesliga/wolfsberger-...	Wolfsberger AC	Tirol	2.12	3.49	3.35	0.531499
7162	01:00	2021-04-18	/soccer/usa/mls/fc-dallas-colorado-rapids-29Qe...	FC Dallas	Colorado Rapids	2.17	3.56	3.21	0.530036
7181	09:30	2021-04-18	/soccer/slovakia/2-liga/samorin-petrzalka-4Get...	Samorin	Petrzalka	2.19	3.32	2.98	0.529422
7148	13:00	2021-04-18	/soccer/spain/laliga/real-sociedad-sevilla-CzQ...	Real Sociedad	Sevilla	2.91	3.27	2.60	0.526403
7140	15:00	2021-04-18	/soccer/switzerland/super-league/lausanne-vadu...	Lausanne	Vaduz	1.79	3.57	4.49	0.515373
7153	20:00	2021-04-18	/soccer/spain/laliga/getafe-real-madrid-2PdxKhnC/	Getafe	Real Madrid	5.48	3.45	1.78	0.508849
7156	15:00	2021-04-18	/soccer/malaysia/super-league/petaling-jaya-ci...	Petaling Jaya CFC	Penang	2.49	3.40	2.49	0.500857
7139	15:00	2021-04-18	/soccer/switzerland/super-league/basel-servett...	Basel	Servette	2.60	3.57	2.54	0.498448
7176	18:00	2021-04-18	/soccer/serbia/super-liga/spartak-subotica-nap...	Sp. Subotica	Napredak	6.50	3.72	1.44	0.497993
7166	20:00	2021-04-18	/soccer/usa/mls/inter-miami-los-angeles-galaxy...	Inter Miami	Los Angeles Galaxy	1.66	4.17	4.74	0.488215
7151	17:30	2021-04-18	/soccer/spain/laliga/betis-valencia-OYcYKYW5/	Betis	Valencia	1.84	3.73	4.43	0.487380
7155	15:00	2021-04-18	/soccer/malaysia/super-league/melaka-united-se...	Melaka United	Selangor	2.32	3.36	2.69	0.485880
7145	17:00	2021-04-18	/soccer/italy/serie-a/torino-as-roma-Wv5V3Whp/	Torino	AS Roma	3.35	3.61	2.17	0.483855
7177	18:00	2021-04-18	/soccer/serbia/super-liga/radnicki-nis-javor-b...	Radnicki Nis	Javor	1.62	3.69	5.06	0.480642
7175	18:00	2021-04-18	/soccer/serbia/super-liga/proleter-novi-sad-ml...	Proleter	Mladost	2.86	3.04	2.44	0.471773
7183	15:00	2021-04-18	/soccer/sweden/division-1-norra/sylvia-sollent...	Sylvia	Sollentuna	2.32	3.58	2.63	0.469738
7170	15:00	2021-04-18	/soccer/slovakia/fortuna-liga/z-moravce-vrable...	Z. Moravce-Vrable	Zilina	2.83	3.72	2.19	0.468288
7161	01:00	2021-04-18	/soccer/usa/mls/new-york-red-bulls-sporting-ka...	New York Red Bulls	Sporting Kansas City	2.38	3.51	2.87	0.464337

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
7165	01:30	2021-04-18	/soccer/usa/mls/chicago-fire-new-england-revol...	Chicago Fire	New England Revolution	2.47	3.53	2.74	0.457110
7146	19:45	2021-04-18	/soccer/italy/serie-a/napoli-inter-YVB1NKg5/	Napoli	Inter	2.98	3.44	2.45	0.434959
7171	12:00	2021-04-18	/soccer/serbia/super-liga/novi-pazar-cukaricki...	Novi Pazar	Cukaricki	3.58	3.40	1.95	0.410577
7168	16:30	2021-04-18	/soccer/bulgaria/parva-liga/tsarsko-selo-cska-...	Tsarsko Selo	CSKA Sofia	6.09	3.67	1.55	0.404120
7173	12:00	2021-04-18	/soccer/serbia/super-liga/fk-zlatibor-cajetina...	Zlatibor Cajetina	Rad Beograd	10.75	5.15	1.21	0.390690
7163	01:00	2021-04-18	/soccer/usa/mls/dc-united-new-york-city-pYF0NcOn/	DC United	New York City	3.93	3.72	1.89	0.388395
7169	18:45	2021-04-18	/soccer/bulgaria/parva-liga/levski-sofia-ludog...	Levski Sofia	Ludogorets	4.86	3.65	1.66	0.375208
7182	15:00	2021-04-18	/soccer/sweden/division-1-norra/assyriska-ff-k...	Assyriska FF	Karlstad	4.50	4.29	1.56	0.343451
7152	17:30	2021-04-18	/soccer/spain/laliga/cadiz-celta-vigo-plnsJC1I/	Cadiz CF	Celta Vigo	3.74	3.42	2.10	0.244014
7158	17:30	2021-04-18	/soccer/portugal/primeira-liga/nacional-fc-por...	Nacional	FC Porto	11.05	5.73	1.27	0.226406

EXPERIMENTAL

Daily model 53

In [36]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_53")
dsp.daily_prediction(df_prediccion)
```

Out[36]:

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
1300	16:00	2021-04-18	/soccer/austria/tipico-bundesliga/rapid-vienna...	Rapid Vienna	Sturm Graz	1.76	3.96	4.22	TEAM2
1308	13:00	2021-04-18	/soccer/czech-republic/1-liga/brno-fk-pardubic...	Brno	FK Pardubice	2.01	3.36	3.68	TEAM2
1302	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/budaorsi-s...	Budaorsi SC	Kazincbarcikai	1.83	3.55	3.67	TEAM1
1295	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/csakvari-s...	Csakvari	Szentlorinc	1.93	3.35	3.51	TEAM2
1301	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/dorogi-fc-...	Dorogi	Szolnoki MAV	2.28	3.24	2.83	TEAM1
1298	19:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/gyor-debre...	Gyor	Debrecen	3.21	3.38	2.05	TEAM2
1306	19:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/gyor-debre...	Gyor	Debrecen	3.21	3.38	2.05	TEAM1
1304	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/soroksar-g...	Soroksar	Gyirmot	3.05	3.25	2.14	TEAM1
1291	11:30	2021-04-18	/soccer/romania/liga-1/campionii-arges-poli-ia...	FC Arges	Poli Iasi	2.01	3.18	3.95	TEAM2
1307	11:30	2021-04-18	/soccer/romania/liga-1/campionii-arges-poli-ia...	FC Arges	Poli Iasi	2.01	3.18	3.95	DRAW
1310	12:00	2021-04-18	/soccer/tanzania/ligi-kuu-bara/polisi-tanzania...	Polisi Tanzania	Tanzania Prisons	2.39	2.81	3.10	TEAM1

In [37]:

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_50")
dsp.daily_prediction(df_prediccion)
```

	hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo
7896	16:00	2021-04-18	/soccer/austria/tipico-bundesliga/rapid-vienna...	Rapid Vienna	Sturm Graz	1.76	3.96	4.22	TEAM2
7893	13:30	2021-04-18	/soccer/austria/tipico-bundesliga/wolfsberger-...	Wolfsberger AC	Tirol	2.12	3.49	3.35	TEAM1
7878	03:00	2021-04-18	/soccer/costa-rica/primera-division/herediano-...	Herediano	Cartagines	1.91	3.16	4.24	TEAM1
7877	01:00	2021-04-18	/soccer/costa-rica/primera-division/sporting-s...	Sporting San Jose	Guadalupe	2.55	3.14	2.73	TEAM1
7906	13:00	2021-04-18	/soccer/czech-republic/1-liga/brno-fk-pardubic...	Brno	FK Pardubice	2.01	3.36	3.68	TEAM2
7911	14:00	2021-04-18	/soccer/germany/3-liga/wehen-unterhaching-roTG...	Wehen	Unterhaching	1.81	3.93	3.89	DRAW
7900	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/budaorsi-s...	Budaorsi SC	Kazincbarcikai	1.83	3.55	3.67	TEAM1
7889	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/csakvari-s...	Csakvari	Szentlorinc	1.93	3.35	3.51	TEAM2
7899	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/dorogi-fc-...	Dorogi	Szolnoki MAV	2.28	3.24	2.83	TEAM1
7892	19:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/gyor-debre...	Gyor	Debrecen	3.21	3.38	2.05	TEAM2
7904	19:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/gyor-debre...	Gyor	Debrecen	3.21	3.38	2.05	TEAM1
7902	16:00	2021-04-18	/soccer/hungary/merkantil-bank-liga/soroksar-g...	Soroksar	Gyirmot	3.05	3.25	2.14	TEAM1
7923	18:00	2021-04-18	/soccer/mexico/liga-mx/u-n-a-m-pumas-u-a-n-l-t...	U.N.A.M.-Pumas	U.A.N.L.-Tigres	3.32	3.33	2.16	DRAW
7875	11:30	2021-04-18	/soccer/romania/liga-1/campionii-arges-poli-ia...	FC Arges	Poli Iasi	2.01	3.18	3.95	TEAM2
7905	11:30	2021-04-18	/soccer/romania/liga-1/campionii-arges-poli-ia...	FC Arges	Poli Iasi	2.01	3.18	3.95	DRAW
7881	12:00	2021-04-18	/soccer/serbia/super-liga/metalac-indjija-lCqW...	Metalac	FK Indjija	2.16	3.24	3.19	TEAM2
7908	12:00	2021-04-18	/soccer/sweden/superettan/osters-landskrona-YV...	Osters	Landskrona	1.74	3.33	5.22	TEAM1
7909	14:00	2021-04-18	/soccer/sweden/superettan/varnamo-sundsvall-fu...	Varnamo	Sundsvall	3.50	3.31	2.10	TEAM1
7898	15:00	2021-04-18	/soccer/switzerland/super-league/basel-servett...	Basel	Servette	2.60	3.57	2.54	TEAM1
7924	12:00	2021-04-18	/soccer/tanzania/ligi-kuu-bara/polisi-tanzania...	Polisi Tanzania	Tanzania Prisons	2.39	2.81	3.10	TEAM1

Daily predictions machin4 EMPATE

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin4")
dsp.daily_prediction(df_prediccion)
```

hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo

Daily predictions machin5

```
df_prediccion = dsp.load_data(tbl="tbl_prediccion_machin5")
dsp.daily_prediction(df_prediccion)
```

In [ ]:

Out[39]:

hora	date	area_league	team1	team2	team1_odds	draw_odds	team2_odds	objetivo

In [ ]: