ANDROID / CHAQUOPY PROJE ARŞİVİ · SÜRÜM v1.4

FAN SUPER — FAN LAB (v1.4)

Tam Proje Ağacı, Başlık Başlık Dosya Yolları, Gradle, Kaynak Kodlar ve Geçmiş Veriler

🌐 Kotlin Meclisi (8 Üye) + 🐍 Python Meclisi (10 Üye, Chaquopy 3.11) + ⚖ Baş Hakem & v1.3/v1.4 Meta-Ensemble (FanBrain)

Dört Satırlı Mavi Overlay (K · Py · Kısa YAN · RAKAM) | Konformal Tek/Çift Kararı | Room/SQLite Hafıza | 893 Canlı Veri Kaydı

PROJE VE REPOSITORY KİMLİĞİ

Repository / Kök:	hsyn8144/FanSuper-FANLAB
Uygulama Paketi:	fan.superai (v1.4 · versionCode = 5)
Git Dalı / Etiket:	arena/01a0f91c-fansuper-fanlab · v1.4-build11
Commit Özeti:	2259415696ae9ec23ae7494b9b94e5d7932b456e
Derleme Ortamı:	Android SDK 34 (min 26) · Kotlin 1.9 · Chaquopy 15
Belge Tarihi:	2026-10-01 (UTC)

ARŞİV KAPSAMI VE İSTATİSTİKLER

Toplam Dosya:	84 Dosya (81 Metin/Kod + 3 İkili/Görsel)
Toplam Satır:	14.078 Satır (%100 Kısaltmasız Tam İçerik)
Toplam Boyut:	1.565.206 bayt (1.49 MB)
Kotlin Kodları:	35 Ana Kaynak + 7 Test = 42 Kotlin (.kt)
Python Kodları:	3 Ana Modül + 2 Test = 5 Python (.py)
Geçmiş Veriler:	893 Canlı Kayıt + 1 Başlık = 894 Satır × 76 Sütun

FAN SUPER v1.4 SÜRÜM ÖZETİ VE MİMARİ BİLEŞENLER

- Overlay (4 Satır, Mavi Kart): En üstte K (Kotlin rakam), altında Py (Python rakam; yoksa '--'), altında YAN (kısa: B•T / K•Ç), en altta RAKAM (nihai çıktı, çiftte 1/2).
- Otomatik Tek/Çift (Konformal Karar): Ayarlar → 'Çift tahmin kararı' (Otomatik / Her zaman çift / Her zaman tek) FanBrain'e taşındı; 1 − p[gerçek] (son 300) %50 eşiğiyle çalışır.
- Yüzdelik Eşik Düzeltmesi: Ayarlar → 'Yedeğe düşme eşiği' Float yuvarlama hatası giderildi; değer tam metin olarak saklanır ve seçilen yüzde etiketini doğru gösterir.
- Kalıcı Hafıza ve Hızlı Geri Alma: Room/SQLite (9 tablo) + O(1) geri alma (Kotlin + Hakem + Python referans/checkpoint görüntüsü) ve sızıntısız kronolojik Replay.
- Bu PDF Arşivi: Repo içindeki 84 dosyanın tamamını; proje ağacı, tam dosya yolları, Gradle betikleri, Kotlin/Python kodları, görseller ve 894 satırlık CSV verileriyle içerir.

BÖLÜM BAZLI PROJE İÇERİK TABLOSU (BAŞLIKLAR ÖZETİ)

Bölüm	Başlık / Kategori Açıklaması	Dosya	Satır	Boyut	Sayfa
BÖLÜM 0.1	İçindekiler ve Tüm Dosyalar Dizini (84 Dosya Tam Liste)	84	14.078	1.49 MB	s. 2
BÖLÜM 0.2	Proje Ağacı (Repository Dizin Yapısı ve v1.4 ZIP Paketi Ağacı)	84	14.078	1.49 MB	s. 4
BÖLÜM 1	Proje Dokümantasyonu ve Sürüm Notları (Markdown)	6	328	21.6 KB	s. 7
BÖLÜM 2	Gradle, Derleme (Build), Git ve CI/CD Yapılandırma Dosyaları	11	762	70.5 KB	s. 12
BÖLÜM 3	Android Manifest ve Uygulama Kaynak Dosyaları (XML & Res)	8	88	4.2 KB	s. 23
BÖLÜM 4	Kotlin Kaynak Kodları — Uygulama Çekirdeği ve Veri Katmanı	4	738	32.4 KB	s. 25
BÖLÜM 5	Kotlin Kaynak Kodları — Tahmin Motoru, Hakem ve Kotlin Meclisi	10	2.025	86.3 KB	s. 35
BÖLÜM 6	Kotlin Kaynak Kodları — v1.3/v1.4 Meta-Ensemble, Beyin, Replay ve Room DB	16	2.806	133.6 KB	s. 60
BÖLÜM 7	Kotlin Kaynak Kodları — Overlay Servisi ve Görünümü (v1.4 Dört Satır)	3	533	23.4 KB	s. 95
BÖLÜM 8	Kotlin Kaynak Kodları — Kullanıcı Arayüzü Ekranları (Jetpack Compose)	9	1.451	76.9 KB	s. 102
BÖLÜM 9	Python Meclisi Kaynak Kodları (Chaquopy Gömülü Python 3.11)	3	1.717	54.7 KB	s. 121
BÖLÜM 10	Birim Testleri — Kotlin (JUnit/Robolectric) ve Python (unittest)	9	1.558	67.4 KB	s. 142
BÖLÜM 11	Mockup ve Görsel Tasarım Dosyaları (mockup/)	3	284	201.8 KB	s. 162
BÖLÜM 12	Geçmiş Veriler (Canlı Veri Kayıtları — CSV Dosyaları)	2	1.788	755.8 KB	s. 168

BÖLÜM 0.1 — İÇİNDEKİLER VE PROJE YOLU BAŞLIKLI TÜM DOSYALAR DİZİNİ

Repo içindeki 84 dosyanın tamamı başlık başlık sınıflandırılmış olup her satır ilgili dosyanın sayfasına bağlantılıdır.

No	Proje Yolu (Dosya Başlığı)	Tür	Satır	Boyut	SHA-256	Sayfa
BÖLÜM 1: Proje Dokümantasyonu ve Sürüm Notları (Markdown)						**s. 7**
#01	README.md	Markdown	103	6.9 KB	848ad8d7	s. 7
#02	CHANGELOG.md	Markdown	83	6.1 KB	bd00cc2c	s. 8
#03	DUZELTMELER.md	Markdown	47	3.1 KB	17f6f805	s. 9
#04	FANLAB_TECHNICAL_NOTES.md	Markdown	62	3.7 KB	a1230156	s. 10
#05	COGO_PYTHON_BUILD_FIX.md	Markdown	15	900 B	1495a4d8	s. 11
#06	GITHUB_UPLOAD.md	Markdown	18	943 B	71cb1888	s. 11
BÖLÜM 2: Gradle, Derleme (Build), Git ve CI/CD Yapılandırma Dosyaları						**s. 12**
#07	settings.gradle.kts	Gradle KTS	17	328 B	fd2db1fc	s. 12
#08	build.gradle.kts	Gradle KTS	6	269 B	feb2d243	s. 12
#09	gradle.properties	Properties	4	133 B	1b0d06c4	s. 12
#10	app/build.gradle.kts	Gradle KTS	116	3.6 KB	ac00d038	s. 12
#11	gradle/wrapper/gradle-wrapper.properties	Properties	7	250 B	7e1d3950	s. 14
#12	gradle/wrapper/gradle-wrapper.jar	Java Archive (JAR)	ikili	44.4 KB	76805e32	s. 14
#13	gradlew	POSIX Shell	251	8.5 KB	3238afb2	s. 15
#14	gradlew.bat	Windows Batch	94	2.9 KB	1d297e00	s. 18
#15	.github/workflows/build.yml	YAML (CI/CD)	202	9.5 KB	0c872f76	s. 19
#16	.gitignore	Git Config	53	486 B	6374dc77	s. 21
#17	.gitattributes	Git Config	12	189 B	9260dc15	s. 22
BÖLÜM 3: Android Manifest ve Uygulama Kaynak Dosyaları (XML & Res)						**s. 23**
#18	app/src/main/AndroidManifest.xml	XML	40	1.6 KB	997455ca	s. 23
#19	app/src/main/res/drawable/ic_fan_super.xml	XML	14	1.1 KB	98c61134	s. 23
#20	app/src/main/res/mipmap-anydpi-v26/ic_launcher.xml	XML	5	258 B	1cbf7ca2	s. 23
#21	app/src/main/res/mipmap-anydpi-v26/ic_launcher_round.xml	XML	5	258 B	1cbf7ca2	s. 24
#22	app/src/main/res/values/colors.xml	XML	5	158 B	7126c0de	s. 24
#23	app/src/main/res/values/strings.xml	XML	6	239 B	6051e823	s. 24
#24	app/src/main/res/values/themes.xml	XML	8	340 B	6248aec2	s. 24
#25	app/src/main/res/xml/data_extraction_rules.xml	XML	5	228 B	22c8c70f	s. 24
BÖLÜM 4: Kotlin Kaynak Kodları — Uygulama Çekirdeği ve Veri Katmanı						**s. 25**
#26	app/src/main/java/fan/superai/FanApp.kt	Kotlin	12	238 B	c80e4e81	s. 25
#27	app/src/main/java/fan/superai/EngineHost.kt	Kotlin	463	20.3 KB	a669b3a6	s. 25
#28	app/src/main/java/fan/superai/data/DataStore.kt	Kotlin	151	6.7 KB	ccc47d00	s. 30
#29	app/src/main/java/fan/superai/data/Settings.kt	Kotlin	112	5.1 KB	0d9fed79	s. 32
BÖLÜM 5: Kotlin Kaynak Kodları — Tahmin Motoru, Hakem ve Kotlin Meclisi						**s. 35**
#30	app/src/main/java/fan/superai/engine/Core.kt	Kotlin	134	4.8 KB	cbabf2b8	s. 35
#31	app/src/main/java/fan/superai/engine/Council.kt	Kotlin	145	5.9 KB	30bcc071	s. 36
#32	app/src/main/java/fan/superai/engine/Referee.kt	Kotlin	143	6.6 KB	79972657	s. 38
#33	app/src/main/java/fan/superai/engine/FanEngine.kt	Kotlin	288	12.7 KB	2d9cf3ed	s. 40
#34	app/src/main/java/fan/superai/engine/PythonBridge.kt	Kotlin	205	9.1 KB	eced6d8a	s. 43
#35	app/src/main/java/fan/superai/engine/Discovery.kt	Kotlin	220	11.0 KB	6441e11a	s. 46
#36	app/src/main/java/fan/superai/engine/Analytics.kt	Kotlin	140	5.7 KB	58db7ed1	s. 49
#37	app/src/main/java/fan/superai/engine/kotlin/KalipArama2.kt	Kotlin	208	8.1 KB	eed0e294	s. 50
#38	app/src/main/java/fan/superai/engine/kotlin/NeuralMembers.kt	Kotlin	205	8.9 KB	d1046663	s. 53
#39	app/src/main/java/fan/superai/engine/kotlin/StatMembers.kt	Kotlin	337	13.6 KB	d9a8f478	s. 55
BÖLÜM 6: Kotlin Kaynak Kodları — v1.3/v1.4 Meta-Ensemble, Beyin, Replay ve Room DB						**s. 60**
#40	app/src/main/java/fan/superai/v13/Domain.kt	Kotlin	210	8.8 KB	90b5405a	s. 60
#41	app/src/main/java/fan/superai/v13/Mathx.kt	Kotlin	83	2.5 KB	1349991f	s. 62
#42	app/src/main/java/fan/superai/v13/Memory.kt	Kotlin	180	7.3 KB	828a4c1d	s. 63
#43	app/src/main/java/fan/superai/v13/SideModels.kt	Kotlin	203	8.5 KB	3f3bca48	s. 65
#44	app/src/main/java/fan/superai/v13/Meta.kt	Kotlin	336	14.5 KB	0606fb67	s. 68

No	Proje Yolu (Dosya Başlığı)	Tür	Satır	Boyut	SHA-256	Sayfa
#45	app/src/main/java/fan/superai/v13/Brain.kt	Kotlin	443	23.2 KB	d3cbbd44	s. 72
#46	app/src/main/java/fan/superai/v13/Explain.kt	Kotlin	154	8.4 KB	bd8f5954	s. 77
#47	app/src/main/java/fan/superai/v13/Insights.kt	Kotlin	75	4.4 KB	6c8af316	s. 79
#48	app/src/main/java/fan/superai/v13/PyAdapter.kt	Kotlin	42	2.2 KB	f9e03164	s. 80
#49	app/src/main/java/fan/superai/v13/Replay.kt	Kotlin	288	15.7 KB	60025b5a	s. 81
#50	app/src/main/java/fan/superai/v13/Runtime.kt	Kotlin	282	14.9 KB	060a2414	s. 84
#51	app/src/main/java/fan/superai/v13/StateIO.kt	Kotlin	96	4.1 KB	687eb4b2	s. 88
#52	app/src/main/java/fan/superai/v13/db/Entities.kt	Kotlin	120	3.1 KB	4d004af1	s. 89
#53	app/src/main/java/fan/superai/v13/db/Dao.kt	Kotlin	72	5.1 KB	fa882103	s. 91
#54	app/src/main/java/fan/superai/v13/db/FanDatabase.kt	Kotlin	32	1.1 KB	4e83b6aa	s. 92
#55	app/src/main/java/fan/superai/v13/db/V13Store.kt	Kotlin	190	9.9 KB	f7f50482	s. 92
BÖLÜM 7: Kotlin Kaynak Kodları — Overlay Servisi ve Görünümü (v1.4 Dört Satır)						**s. 95**
#56	app/src/main/java/fan/superai/overlay/OverlayContent.kt	Kotlin	73	3.1 KB	ba271c24	s. 95
#57	app/src/main/java/fan/superai/overlay/OverlayService.kt	Kotlin	184	7.7 KB	64086314	s. 96
#58	app/src/main/java/fan/superai/overlay/OverlayView.kt	Kotlin	276	12.5 KB	588ba0cc	s. 98
BÖLÜM 8: Kotlin Kaynak Kodları — Kullanıcı Arayüzü Ekranları (Jetpack Compose)						**s. 102**
#59	app/src/main/java/fan/superai/ui/MainActivity.kt	Kotlin	95	3.7 KB	4ced0fbb	s. 102
#60	app/src/main/java/fan/superai/ui/Theme.kt	Kotlin	116	4.8 KB	707e7709	s. 103
#61	app/src/main/java/fan/superai/ui/HomeScreen.kt	Kotlin	136	8.0 KB	fb5fadfa	s. 104
#62	app/src/main/java/fan/superai/ui/CouncilScreen.kt	Kotlin	137	7.8 KB	11285023	s. 106
#63	app/src/main/java/fan/superai/ui/DiscoveryChartScreens.kt	Kotlin	131	7.2 KB	1de4cc1c	s. 108
#64	app/src/main/java/fan/superai/ui/ResearchScreen.kt	Kotlin	68	3.5 KB	731e1f55	s. 110
#65	app/src/main/java/fan/superai/ui/FanLabScreen.kt	Kotlin	419	23.1 KB	9245845f	s. 110
#66	app/src/main/java/fan/superai/ui/SettingsScreen.kt	Kotlin	241	14.1 KB	44bf6eea	s. 116
#67	app/src/main/java/fan/superai/ui/LogScreen.kt	Kotlin	108	4.7 KB	c5c95d53	s. 119
BÖLÜM 9: Python Meclisi Kaynak Kodları (Chaquopy Gömülü Python 3.11)						**s. 121**
#68	app/src/main/python/fan_super.py	Python	640	20.8 KB	ac7772e3	s. 121
#69	app/src/main/python/fan_members.py	Python	737	23.5 KB	a01e8021	s. 128
#70	app/src/main/python/fan_side.py	Python	340	10.4 KB	844eec41	s. 137
BÖLÜM 10: Birim Testleri — Kotlin (JUnit/Robolectric) ve Python (unittest)						**s. 142**
#71	app/src/test/java/fan/superai/engine/FanEngineUndoTest.kt	Kotlin	262	10.0 KB	4d2db9e9	s. 142
#72	app/src/test/java/fan/superai/engine/ResearchLabTest.kt	Kotlin	22	722 B	dd2e22fa	s. 145
#73	app/src/test/java/fan/superai/overlay/OverlayContentTest.kt	Kotlin	130	6.3 KB	0763d3ef	s. 145
#74	app/src/test/java/fan/superai/overlay/OverlayViewTest.kt	Kotlin	314	15.1 KB	74269d5b	s. 147
#75	app/src/test/java/fan/superai/v13/V13CoreTest.kt	Kotlin	237	10.7 KB	6d94231c	s. 150
#76	app/src/test/java/fan/superai/v13/V13RuntimeTest.kt	Kotlin	121	5.3 KB	6eb089cb	s. 153
#77	app/src/test/java/fan/superai/v13/V13StoreTest.kt	Kotlin	143	5.8 KB	a674bb31	s. 155
#78	app/src/test/python/test_fan_super.py	Python	152	6.0 KB	d8da9263	s. 157
#79	app/src/test/python/test_fan_side.py	Python	177	7.5 KB	9f320722	s. 158
BÖLÜM 11: Mockup ve Görsel Tasarım Dosyaları (mockup/)						**s. 162**
#80	mockup/index.html	HTML/CSS	284	23.7 KB	c71c237f	s. 162
#81	mockup/eski-overlay.png	PNG Görsel	ikili	93.4 KB	33df9b36	s. 166
#82	mockup/yeni-overlay.png	PNG Görsel	ikili	84.7 KB	df3c39f3	s. 167
BÖLÜM 12: Geçmiş Veriler (Canlı Veri Kayıtları — CSV Dosyaları)						**s. 168**
#83	app/src/main/assets/fan_data_live.csv	CSV Veri	894	377.9 KB	1debf2c4	s. 168
#84	fan_data_live.csv	CSV Veri	894	377.9 KB	1debf2c4	s. 203

BÖLÜM 0.2 — TAM PROJE AĞACI (REPOSITORY VE v1.4 KAYNAK PAKETİ DİZİN YAPISI)

Projedeki tüm klasörler ve 84 dosyanın hiyerarşik ağaç görünümü (satır sayıları, boyutlar ve sayfa bağlantılarıyla).

```
FanSuper-FANLAB/  (Proje Kök Dizini: /home/user/FanSuper-FANLAB)
├── .github/
│   └── workflows/
│       └── build.yml                                   [#15 · YAML (CI/CD) · 202 satır · 9.5 KB · s. 19]
├── app/
│   ├── src/
│   │   ├── main/
│   │   │   ├── assets/
│   │   │   │   └── fan_data_live.csv                   [#83 · CSV Veri · 894 satır · 377.9 KB · s. 168]
│   │   │   ├── java/
│   │   │   │   └── fan/
│   │   │   │       └── superai/
│   │   │   │           ├── data/
│   │   │   │           │   ├── DataStore.kt           [#28 · Kotlin · 151 satır · 6.7 KB · s. 30]
│   │   │   │           │   └── Settings.kt            [#29 · Kotlin · 112 satır · 5.1 KB · s. 32]
│   │   │   │           ├── engine/
│   │   │   │           │   ├── kotlin/
│   │   │   │           │   │   ├── KalipArama2.kt     [#37 · Kotlin · 208 satır · 8.1 KB · s. 50]
│   │   │   │           │   │   ├── NeuralMembers.kt   [#38 · Kotlin · 205 satır · 8.9 KB · s. 53]
│   │   │   │           │   │   └── StatMembers.kt     [#39 · Kotlin · 337 satır · 13.6 KB · s. 55]
│   │   │   │           │   ├── Analytics.kt           [#36 · Kotlin · 140 satır · 5.7 KB · s. 49]
│   │   │   │           │   ├── Core.kt                [#30 · Kotlin · 134 satır · 4.8 KB · s. 35]
│   │   │   │           │   ├── Council.kt             [#31 · Kotlin · 145 satır · 5.9 KB · s. 36]
│   │   │   │           │   ├── Discovery.kt           [#35 · Kotlin · 220 satır · 11.0 KB · s. 46]
│   │   │   │           │   ├── FanEngine.kt           [#33 · Kotlin · 288 satır · 12.7 KB · s. 40]
│   │   │   │           │   ├── PythonBridge.kt        [#34 · Kotlin · 205 satır · 9.1 KB · s. 43]
│   │   │   │           │   └── Referee.kt             [#32 · Kotlin · 143 satır · 6.6 KB · s. 38]
│   │   │   │           ├── overlay/
│   │   │   │           │   ├── OverlayContent.kt      [#56 · Kotlin · 73 satır · 3.1 KB · s. 95]
│   │   │   │           │   ├── OverlayService.kt      [#57 · Kotlin · 184 satır · 7.7 KB · s. 96]
│   │   │   │           │   └── OverlayView.kt         [#58 · Kotlin · 276 satır · 12.5 KB · s. 98]
│   │   │   │           ├── ui/
│   │   │   │           │   ├── CouncilScreen.kt       [#62 · Kotlin · 137 satır · 7.8 KB · s. 106]
│   │   │   │           │   ├── DiscoveryChartScreens.kt [#63 · Kotlin · 131 satır · 7.2 KB · s. 108]
│   │   │   │           │   ├── FanLabScreen.kt        [#65 · Kotlin · 419 satır · 23.1 KB · s. 110]
│   │   │   │           │   ├── HomeScreen.kt          [#61 · Kotlin · 136 satır · 8.0 KB · s. 104]
│   │   │   │           │   ├── LogScreen.kt           [#67 · Kotlin · 108 satır · 4.7 KB · s. 119]
│   │   │   │           │   ├── MainActivity.kt        [#59 · Kotlin · 95 satır · 3.7 KB · s. 102]
│   │   │   │           │   ├── ResearchScreen.kt      [#64 · Kotlin · 68 satır · 3.5 KB · s. 110]
│   │   │   │           │   ├── SettingsScreen.kt      [#66 · Kotlin · 241 satır · 14.1 KB · s. 116]
│   │   │   │           │   └── Theme.kt               [#60 · Kotlin · 116 satır · 4.8 KB · s. 103]
│   │   │   │           ├── v13/
│   │   │   │           │   ├── db/
│   │   │   │           │   │   ├── Dao.kt             [#53 · Kotlin · 72 satır · 5.1 KB · s. 91]
│   │   │   │           │   │   ├── Entities.kt        [#52 · Kotlin · 120 satır · 3.1 KB · s. 89]
│   │   │   │           │   │   ├── FanDatabase.kt     [#54 · Kotlin · 32 satır · 1.1 KB · s. 92]
│   │   │   │           │   │   └── V13Store.kt        [#55 · Kotlin · 190 satır · 9.9 KB · s. 92]
│   │   │   │           │   ├── Brain.kt               [#45 · Kotlin · 443 satır · 23.2 KB · s. 72]
│   │   │   │           │   ├── Domain.kt              [#40 · Kotlin · 210 satır · 8.8 KB · s. 60]
│   │   │   │           │   ├── Explain.kt             [#46 · Kotlin · 154 satır · 8.4 KB · s. 77]
│   │   │   │           │   ├── Insights.kt            [#47 · Kotlin · 75 satır · 4.4 KB · s. 79]
│   │   │   │           │   ├── Mathx.kt               [#41 · Kotlin · 83 satır · 2.5 KB · s. 62]
│   │   │   │           │   ├── Memory.kt              [#42 · Kotlin · 180 satır · 7.3 KB · s. 63]
│   │   │   │           │   ├── Meta.kt                [#44 · Kotlin · 336 satır · 14.5 KB · s. 68]
│   │   │   │           │   ├── PyAdapter.kt           [#48 · Kotlin · 42 satır · 2.2 KB · s. 80]
│   │   │   │           │   ├── Replay.kt              [#49 · Kotlin · 288 satır · 15.7 KB · s. 81]
│   │   │   │           │   ├── Runtime.kt             [#50 · Kotlin · 282 satır · 14.9 KB · s. 84]
│   │   │   │           │   ├── SideModels.kt          [#43 · Kotlin · 203 satır · 8.5 KB · s. 65]
│   │   │   │           │   └── StateIO.kt             [#51 · Kotlin · 96 satır · 4.1 KB · s. 88]
│   │   │   │           ├── EngineHost.kt              [#27 · Kotlin · 463 satır · 20.3 KB · s. 25]
│   │   │   │           └── FanApp.kt                  [#26 · Kotlin · 12 satır · 238 B · s. 25]
```

```
│   │   │   ├── python/
│   │   │   │   ├── fan_members.py                    [#69 · Python · 737 satır · 23.5 KB · s. 128]
│   │   │   │   ├── fan_side.py                       [#70 · Python · 340 satır · 10.4 KB · s. 137]
│   │   │   │   └── fan_super.py                      [#68 · Python · 640 satır · 20.8 KB · s. 121]
│   │   │   ├── res/
│   │   │   │   ├── drawable/
│   │   │   │   │   └── ic_fan_super.xml              [#19 · XML · 14 satır · 1.1 KB · s. 23]
│   │   │   │   ├── mipmap-anydpi-v26/
│   │   │   │   │   ├── ic_launcher.xml               [#20 · XML · 5 satır · 258 B · s. 23]
│   │   │   │   │   └── ic_launcher_round.xml         [#21 · XML · 5 satır · 258 B · s. 24]
│   │   │   │   ├── values/
│   │   │   │   │   ├── colors.xml                    [#22 · XML · 5 satır · 158 B · s. 24]
│   │   │   │   │   ├── strings.xml                   [#23 · XML · 6 satır · 239 B · s. 24]
│   │   │   │   │   └── themes.xml                    [#24 · XML · 8 satır · 340 B · s. 24]
│   │   │   │   └── xml/
│   │   │   │       └── data_extraction_rules.xml     [#25 · XML · 5 satır · 228 B · s. 24]
│   │   │   └── AndroidManifest.xml                   [#18 · XML · 40 satır · 1.6 KB · s. 23]
│   │   └── test/
│   │       ├── java/
│   │       │   └── fan/
│   │       │       └── superai/
│   │       │           ├── engine/
│   │       │           │   ├── FanEngineUndoTest.kt [#71 · Kotlin · 262 satır · 10.0 KB · s. 142]
│   │       │           │   └── ResearchLabTest.kt   [#72 · Kotlin · 22 satır · 722 B · s. 145]
│   │       │           ├── overlay/
│   │       │           │   ├── OverlayContentTest.kt [#73 · Kotlin · 130 satır · 6.3 KB · s. 145]
│   │       │           │   └── OverlayViewTest.kt   [#74 · Kotlin · 314 satır · 15.1 KB · s. 147]
│   │       │           └── v13/
│   │       │               ├── V13CoreTest.kt       [#75 · Kotlin · 237 satır · 10.7 KB · s. 150]
│   │       │               ├── V13RuntimeTest.kt    [#76 · Kotlin · 121 satır · 5.3 KB · s. 153]
│   │       │               └── V13StoreTest.kt      [#77 · Kotlin · 143 satır · 5.8 KB · s. 155]
│   │       └── python/
│   │           ├── test_fan_side.py                  [#79 · Python · 177 satır · 7.5 KB · s. 158]
│   │           └── test_fan_super.py                 [#78 · Python · 152 satır · 6.0 KB · s. 157]
│   └── build.gradle.kts                              [#10 · Gradle KTS · 116 satır · 3.6 KB · s. 12]
├── gradle/
│   └── wrapper/
│       ├── gradle-wrapper.jar                        [#12 · Java Archive (JAR) · ikili (binary) · 44.4 KB · s. 14]
│       └── gradle-wrapper.properties                 [#11 · Properties · 7 satır · 250 B · s. 14]
├── mockup/
│   ├── eski-overlay.png                              [#81 · PNG Görsel · ikili (binary) · 93.4 KB · s. 166]
│   ├── index.html                                    [#80 · HTML/CSS · 284 satır · 23.7 KB · s. 162]
│   └── yeni-overlay.png                              [#82 · PNG Görsel · ikili (binary) · 84.7 KB · s. 167]
├── .gitattributes                                    [#17 · Git Config · 12 satır · 189 B · s. 22]
├── .gitignore                                        [#16 · Git Config · 53 satır · 486 B · s. 21]
├── build.gradle.kts                                  [#08 · Gradle KTS · 6 satır · 269 B · s. 12]
├── CHANGELOG.md                                      [#02 · Markdown · 83 satır · 6.1 KB · s. 8]
├── COGO_PYTHON_BUILD_FIX.md                          [#05 · Markdown · 15 satır · 900 B · s. 11]
├── DUZELTMELER.md                                    [#03 · Markdown · 47 satır · 3.1 KB · s. 9]
├── fan_data_live.csv                                 [#84 · CSV Veri · 894 satır · 377.9 KB · s. 203]
├── FANLAB_TECHNICAL_NOTES.md                         [#04 · Markdown · 62 satır · 3.7 KB · s. 10]
├── GITHUB_UPLOAD.md                                  [#06 · Markdown · 18 satır · 943 B · s. 11]
├── gradle.properties                                 [#09 · Properties · 4 satır · 133 B · s. 12]
├── gradlew                                           [#13 · POSIX Shell · 251 satır · 8.5 KB · s. 15]
├── gradlew.bat                                       [#14 · Windows Batch · 94 satır · 2.9 KB · s. 18]
├── README.md                                         [#01 · Markdown · 103 satır · 6.9 KB · s. 7]
└── settings.gradle.kts                               [#07 · Gradle KTS · 17 satır · 328 B · s. 12]
```

GITHUB ACTIONS v1.4 DAĞITIM PAKETİ AĞACI (FanSuper_v1.4.zip — .github/workflows/build.yml)

```
FanSuper_v1.4.zip
├── FanSuper_v1.4/                  (git archive HEAD ile üretilen çalışan v1.4 kaynak ağacı; kök CSV tekrar edilmez)
│   ├── .github/workflows/build.yml , .gitignore , .gitattributes , README.md , CHANGELOG.md , ...
│   ├── build.gradle.kts , settings.gradle.kts , gradle.properties , gradlew , gradlew.bat , gradle/wrapper/*
│   └── app/ (build.gradle.kts, src/main/AndroidManifest.xml, assets/fan_data_live.csv, java/fan/superai/**, python/**, res/**, src/test/**)
└── veri/
    └── fan_data_live.csv           (app/src/main/assets/fan_data_live.csv ile birebir aynı 893 geçmiş canlı kayıt)
```

BÖLÜM 1: Proje Dokümantasyonu ve Sürüm Notları (Markdown)

6 Dosya · 328 Satır · 21.6 KB

Projenin genel mimarisi, v1.1–v1.4 sürüm geçmişi, yapılan düzeltmeler, FAN LAB teknik notları, Chaquopy derleme rehberi ve GitHub yükleme kılavuzu.

[Dosya #01/84] Proje Yolu: README.md

BÖLÜM 1 · Markdown

Kök: /home/user/FanSuper-FANLAB | Boyut: 7.113 B (6.9 KB) | Satır: 103 satır SHA-256: 848ad8d719093b13250861dd10c9007a…

```
# FAN SUPER v1.4

Tek uygulamada iki meclis: **🛢 Kotlin Meclisi** (8 üye) ve **🐍 Python Meclisi** (10 üye, Chaquopy ile uygulamaya gömülü).
İki meclis kendi içinde **Fixed-Share Hedge** ile yarışır; **⚖ Baş Hakem** (stacking + kalibrasyon + konformal tek/çift kararı)
uygulama içinde tek bir **rakam tahmini** ve tek bir **yan tahmin** (T/Ç • K/B) üretir.
Overlay ise v9.6 mavi kartının **Kalıp satırı çıkarılmış** halidir; Kotlin ve Python tahminlerini ayrı gösterir.

- Sürüm: **1.4** (`versionCode = 5`)
- Paket: `fan.superai` (`super` Java/Kotlin'de ayrılmış kelime olduğu için `fan.super.ai` kullanılamaz)
- Hazır veri: `app/src/main/assets/fan_data_live.csv` (893 kayıt) ilk açılışta yüklenir.

## Meclisler
| 🛢 Kotlin | 🐍 Python |
|---|---|
| Kalıp Arama 2.0 (6 görünüm × 30 uzunluk, hash indeksli) | LSTM (BPTT) |
| CTW (Context Tree Weighting) | Mini Transformer (dikkat / induction head) |
| PPM-C | 1D-CNN |
| Frekans / Aralık (hazard) | Kalıp 2.0 bulanık (1 fark + ayna) |
| Seri / Dalga | kNN-DTW |
| Rejim | Spektral + BOCPD |
| GRU (BPTT) | Gradient Boosting |
| ESN | Bağlam modeli · Motif keşfi · HMM |

## Ekranlar
Ana · Meclisler (Kotlin / Python / Yan) · 🔍 Keşif Laboratuvarı · Grafik · Ayarlar

## Derleme
GitHub Actions (`.github/workflows/build.yml`) her push'ta APK üretir; main dalında Releases altına da koyar.
Yerelde: JDK 17 + Python 3.11 kurulu iken `./gradlew assembleDebug`.

## Overlay kullanımı ve testler
Varsayılan dikey kartın sırası (v1.4):
1. **K** — Kotlin meclisinin rakam tahmini (`1/2` gibi)
2. **Py** — Python meclisinin rakam tahmini (Python yoksa `--`)
3. **YAN** — nihai yan tahmini, kısa: `B•T`, `K•Ç` gibi
4. **RAKAM** — nihai rakam tahmini (çift kararda `1/2`)
5. **Son 6 veri**, en yeni veri **solda**
6. **DEL → 4 → 3 → 2 → 1**, tam genişlikte ve **alt alta**

Kalıp ve hakem/meclis detayları overlay'de gösterilmez; uygulamanın içindeki
meclisler, modeller, veriler, öğrenme ve geri alma işlemleri değişmemiştir.
Tahmin satırlarından, son sayılardan veya kartın boş kenarlarından tutup sürükleyin.
Sürükleme için uzun basmayı beklemek gerekmez; sayı/DEL düğmeleri veri girişi içindir.
Yatay yerleşim ayarı korunur: dört tahmin satırı solda, düğmeler sağdadır.
Saydamlık, yazı boyutu, son sayı dizisini gösterme ve titreşim ayarları korunur.

**Tahmin kaynağı:** K/Py rakamları doğrudan ilgili meclisin rakam eksenindeki grup
karışımıdır. Kaç aday gösterileceği Ayarlar → "Çift tahmin kararı" ile belirlenir:
**Her zaman tek** yalnızca ilk adayı, **Her zaman çift** ilk iki adayı gösterir;
**Otomatik** ise konformal kuralı kullanır (1 − p[gerçek] skorlarının %50 kapsama eşiği,
son 300 değerlendirme). Karar nihai tahminle birlikte kilitlenir ve kilit bağlamıyla
saklanır; geri yüklemede aynı gösterim yeniden üretilir. Overlay yüzdeleri ilgili
adayların ham olasılık toplamıdır; nihai güven kalibrasyonludur. Yan tahmini her meclisin
kendi dağılımından türetilir; yan yüzdesi tek/çift ve küçük/büyük güvenlerinin ortalamasıdır.
Python hazır/aktif değilse Py satırı `--` gösterir; Kotlin veya hakem sonucu Python tahmini
gibi gösterilmez.

Son veriler yalnızca gösterimde ters çevrilir, motor geçmişinin sırası değişmez.
Bekleyen girişlerin motor tarafından işlenmiş bölümü tekrar eklenmez; böylece motor
hesap yaparken son 6 satırında aynı giriş iki kez görünmez.

Overlay dokunma regresyon testleri: `./gradlew testDebugUnitTest`.
GitHub Actions bu testleri APK derlemesiyle birlikte çalıştırır ve test raporlarını
`overlay-test-reports`, kurulabilir APK'yı `FAN_SUPER_APK`, kaynak paketini
`FanSuper_v1.4.zip` olarak `FanSuper_SOURCE` artifact'ında saklar (main'de ayrıca Release'e konur).
ZIP içinde yalnızca çalışan v1.4 kaynakları ve `veri/fan_data_live.csv` (sadece eski kayıtlar)
bulunur; APK, log, anahtar, yerel ayar ve build klasörleri pakete girmez. Paket hem
Android Studio hem Code on the Go ile içe aktarılabilir: ZIP'i açıp `FanSuper_v1.4/` klasörünü açın.

Yüzdelik ayar (Ayarlar → Yedeğe düşme eşiği) tam değer olarak saklanır; seçim etiketi
seçilen yüzdeyi gösterir (Float yuvarlaması nedeniyle ham sayı görünmesi v1.4'te giderildi).

## Veri girişi düğmeleri ve hızlı geri alma (⌫ / DEL)
- **Anında geri bildirim:** Sayı düğmesine basıldığı anda rakam "Son 6" satırında görünür;
  motor hesabı arka planda sırayla işlenir. Motor henüz hazır değilse (ilk açılış) girişler
  kuyruğa alınır, hiçbir basış kaybolmaz. Kaç işlemin sırada olduğu Ana ekranda gösterilir.
```

[Dosya #01/84 — Devam] Proje Yolu: README.md (Satır 77 ve sonrası)

```
- **Düğmeler her zaman ekran içinde:** Kart artık ekran genişliğini aşamaz; yatay görünümde
  tahmin satırı daralır, sürükleyince kart ekran dışına çıkarılamaz. Böylece 1/2/3/4 ve DEL
  düğmeleri ulaşılabilir kalır.
- **O(1) geri alma:** Her adım için küçük bir geri alma kaydı tutulur (Kotlin meclisi + hakem
  + Python meclisi). ⌫ artık tüm geçmişi baştan öğrenmez, milisaniyeler içinde biter ve
  veriyi birebir eski haline döndürür. Python tarafında adım başına derin kopya (deepcopy)
  kaldırıldı; bunun yerine referans tabanlı görüntü + dayanak (checkpoint) kullanılır,
  durum dosyasıyla birlikte saklanır (uygulama yeniden açıldığında ilk geri alma da hızlıdır).
- Kayıt yığınının dışında (64+ adım derin) geri alma yapılırsa motor doğru sonucu vermek için
  tam yeniden kurmaya düşer; bu normaldir ve logcat'te `undo ... (tam yeniden kurma gerekti)`
  olarak görünür.

Python geri alma testleri (yerelde): `pip install "numpy<2"` sonra
`python app/src/test/python/test_fan_super.py -v`.


### v1.2 FAN LAB
The project now includes a research/validation layer that reports chronological walk-forward performance, bootstrap confidence intervals, permutation benchmarks, log loss, Brier score, entropy, calibration gap, member disagreement and Jensen-Shannon diversity. These metrics are diagnostic; they do not guarantee predictive advantage on a future random process.


### v1.3 — meta-ensemble, kalıcı hafıza, replay
- Tek nihai tahmin: tek rakam + tek yan (BÜYÜK/KÜÇÜK + TEK/ÇİFT). Overlay'de iki satır (RAKAM, YAN); Kotlin/Python ayrıntısı FAN LAB'da.
- Room/SQLite kalıcı hafıza; açılışta yalnızca yeni kayıtlar işlenir; "Full Replay" yalnızca ilk kurulum, durum bozulması ya da elle.
- Yan tahmin rakamdan türetilmez; Python Kalıp Arama 2.0 hem Büyük/Küçük hem Tek/Çift eksenine girer.
- Replay (RESEARCH modu) sandbox'ta çalışır; sızıntı denetimi, bootstrap/permutation, baseline ve karşı-olgusal analiz içerir.
- Ayrıntılı teknik notlar: `FANLAB_TECHNICAL_NOTES.md` (v1.3 bölümü). Hata kodları `FAN-E-*`, olay günlüğü `NEW_RECORD … REPLAY_COMPLETED`.
- Python testleri: `pip install "numpy<2"` ardından `python app/src/test/python/test_fan_super.py -v` ve `test_fan_side.py -v`.
```

[Dosya #02/84] Proje Yolu: CHANGELOG.md BÖLÜM 1 · Markdown

Kök: /home/user/FanSuper-FANLAB | Boyut: 6.210 B (6.1 KB) | Satır: 83 satır SHA-256: bd00cc2c9fe25e509698126a2d372a84…

```
# Sürüm notları

## 1.4 — 2026-10-01
Overlay yerleşimi + iki hata düzeltmesi. v1.3'ün hiçbir özelliği kaldırılmadı.

**Overlay (dört satır, aynı mavi kart)**
- En üstte **K** — Kotlin meclisinin rakam tahmini; altında **Py** — Python meclisinin rakam tahmini.
- Altında **YAN** — nihai yan tahmini artık KISA: `B•T`, `K•Ç` gibi (eski "BÜYÜK + TEK" uzun yazım kaldırıldı).
- En altta **RAKAM** — şimdiye kadar ekranda olan nihai çıktı (çift kararda `1/2`).
- K/Py satırları ilgili meclisin kendi grup karışımından beslenir; Python hazır/yok ise `--` gösterir,
  Kotlin veya hakem sonucu Python satırına kopyalanmaz.
- Dikey kartta düğme grubu panelden artan yüksekliği alır: dört satır eklendikten sonra da
  DEL/4/3/2/1 kısa ekranlarda kart içinde kalır. Yatay yerleşim korunur.

**Düzeltmeler**
- **Yüzdelik seçimi (Ayarlar → Yedeğe düşme eşiği):** değer Float olarak saklandığı için
  0.18 → 0.18000000715255737 oluyor ve seçim etiketi bulunamayıp ham float yazılıyordu.
  Değer artık tam (metin) saklanıyor, seçenek eşleştirmesi toleranslı; eski kurulumlar da okunur.
- **Otomatik tek/çift mekanizması:** "Çift tahmin kararı" (Otomatik / Her zaman çift / Her zaman tek)
  yalnızca eski hakemi etkiliyordu; nihai v1.3 tahmini ve overlay etkilenmiyordu. v1.4'te konformal
  karar FanBrain'e taşındı: 1 − p[gerçek] skorları (son 300) %50 kapsama eşiğiyle değerlendirilir,
  karar kilit bağlamıyla saklanır. Rakam/güven tek kararda tek aday, çift kararda ilk iki aday üzerinden
  hesaplanır; Python meclisi karara katıldığında skorlar ortak güncellenir.

**Sürüm/paketleme**
- `versionCode = 5`, `versionName = "1.4"`.
- Workflow artık `FanSuper_v1.4.zip` içinde YALNIZCA çalışan kaynakları (izlenen dosyalar) ve
  `veri/fan_data_live.csv` (sadece eski kayıtlar) paketler; APK/log/anahtar/yerel ayar/build klasörü
  bulunmadığını denetler. Ana ekran ve FAN LAB sürüm etiketi v1.4.

## 1.1 — 2026-09-27

- Onaylanan eski mavi overlay düzeni: Kotlin rakam, Python rakam, Kotlin yan ve Python yan.
- Kalıp ve hakem/meclis detayları overlay'den kaldırıldı; uygulama içindeki modeller değişmedi.
- Son 6 veri en yenisi solda; hızlı girişlerde işlenmiş kayıtların tekrar gösterilmesi önlendi.
- Dikey kartta DEL, 4, 3, 2, 1 tam genişlikli ve alt alta; yatay ayarı korunuyor.
- Tahmin alanı/son sayılar/kenarlardan sürükleme; yeniden ölçüm sonrası ekran içine sığdırma.
- Tahmin kaynağı, Python yokluğu, veri sırası, dokunma ve yerleşim regresyon testleri eklendi.
- versionCode 2; sürümlü APK, kaynak ZIP ve SHA-256 dosyaları workflow tarafından üretilir.


## 1.2
- FAN LAB research screen added.
- Chronological walk-forward reporting from prediction logs.
- Bootstrap confidence interval for Top-1 accuracy.
- Permutation benchmark against shuffled outcomes.
- Log loss, Brier score, entropy and calibration-gap metrics.
```

[Dosya #02/84 — Devam] Proje Yolu: CHANGELOG.md (Satır 48 ve sonrası)

```
- Ensemble member disagreement and Jensen-Shannon diversity metrics.
- Recent-window performance and research rerun action.
- Existing prediction, council, discovery, chart, overlay and undo flows preserved.


## 1.3 — 2026-10-01
Araştırma / öğrenme / replay / ensemble sistemi. v1.2'de çalışan hiçbir özellik kaldırılmadı.

**Tek nihai tahmin**
- Kotlin + Python (rakam ve yan) çıktıları ortak olasılık dağılımı biçiminde olasılık seviyesinde birleştirilir (probability-level meta-ensemble).
  Ağırlıklar: performans (log-skor kazancı, uzun/kısa EWMA), kalibrasyon, rejim, örnek sayısı, model çeşitliliği (korelasyon/uyum/JSD).
- `FinalPrediction`: tek rakam + tek yan (1 BÜYÜK/KÜÇÜK + 1 TEK/ÇİFT), dağılımlar, güven, entropi, rejim, ensemble sürümü, zaman damgası, kilit kimliği.
- Yan tahmin rakamdan türetilmez: BS ve OE için ayrı Kotlin motorları (frekans, son pencere, Markov, seri, rejim koşullu, kalıp) +
  Python yan meclisi (**Kalıp Arama 2.0 dahil — her iki eksende**, n-gram, lojistik) + birleşik 4'lü analiz.
- Rakam alfabesi 1..4 (N=4); rastgele baseline rakam %25, yan %50, birleşik %25.

**Kalıcı hafıza (Room + SQLite)**
- Tablolar: FanRecord, PredictionRecord, ModelState, ModelPerformance, RegimeState, CalibrationState, EnsembleState, ReplayState, PredictionExplanation.
- CSV artık ana veritabanı değildir (ilk kurulum aktarımı / dışa aktarım / yedek). v1.2 kullanıcılarının CSV'si ilk açılışta DB'ye aktarılır.
- Açılışta yalnızca yeni kayıtlar işlenir (durum parçaları + Python önek yüklemesi). Tam replay yalnızca ilk kurulum, bozuk/uyuşmayan durum
  veya elle "Full Replay" durumunda.
- Her kayıtta DB baştan yazılmaz: yalnızca değişen durum parçaları yazılır; son 8 geri alma anlık görüntüsü DB'de.

**Replay, sızıntı koruması, tekrarlanabilirlik**
- Kronolojik replay: geçmiş → tahmin → LOCK → gerçek sonuç → değerlendirme → öğrenme. Gelecek veri fiziksel olarak erişilemez (önek kopyaları).
- Kilit: predictionTimestamp, predictionSequence, lastKnownRecordId, kilit özeti (CRC); yeniden başlatmada kilit yeniden üretilip doğrulanır.
- LIVE ve RESEARCH/REPLAY modları ayrı (sandbox brain + Python sandbox_replay).
- Bootstrap güven aralıkları, permutation testleri, baseline'lar, karşı-olgusal (Python yok / Kotlin yok / ağırlık ±%10 / eşit ağırlık; gerçek state'e yazmaz).

**Açıklamalar**: yalnızca gerçek hesaplardan (grup favorileri, rejim isabeti, kalibrasyon, geçiş matrisi, seri, entropi, model anlaşmazlığı).

**Arayüz**: overlay tasarımı korunarak 4 satır → 2 satır (RAKAM + YAN, örn. `BÜYÜK+TEK`); Kotlin/Python ayrımı FAN LAB'a taşındı.
FAN LAB 8 sekme: Overview (v1.2 araştırma içeriği + sayfalı tahmin geçmişi), Models, Side Analysis, Replay, Calibration, Diversity, Regime, Counterfactual.

**Testler**: v13 çekirdek (sızıntı önek-değişmezliği, replay sırası, tekrarlanabilirlik, kilit, kalıcılık, artımlı = tam replay, undo, yan iki bileşen,
rakam aralığı, tek dağılım, karşı-olgusal), Room (Robolectric), Python yan meclis testleri. versionCode 4.
```

[Dosya #03/84] Proje Yolu: DUZELTMELER.md BÖLÜM 1 · Markdown

Kök: /home/user/FanSuper-FANLAB | Boyut: 3.218 B (3.1 KB) | Satır: 47 satır SHA-256: 17f6f80549aaf880d57290a2e8d5964d…

```
# Bu paket için yapılan düzeltmeler

## 1) Overlay döndürme/hizalama düzeltmesi
`OverlayService.kt`'ye `onConfigurationChanged` eklendi. Ekran döndürüldüğünde kart artık
zorla yeniden ölçülüp ekran içine sığdırılıyor — önceden bu yalnızca kartın KENDİ boyu
değiştiğinde tetikleniyordu, ekran boyu değiştiğinde değil.

## 2) Hızlı art arda tuşlamada "echo" sayaç kayması
`EngineHost.kt` / `Echo`: anlık geri bildirim listesi ekranda son 6 sayıyla sınırlı olsa da
(`takeLast(6)`), bekleyen toplam işlem sayısını artık ayrı bir `pendingCount` alanı takip
ediyor. Önceden 6'dan fazla hızlı tuşlamada bu sayaç kırpılan listenin boyutundan
hesaplanıyordu ve nadir durumlarda ekranın erken/geç senkron olmasına yol açabiliyordu.

## 3) Python köprüsü: JSON'suz sıcak yol
`fan_super.py`'de `step_fast` ve `undo_to_fast` eklendi (mevcut `step`/`undo_to` JSON'lu
haliyle, testler için ve geriye dönük uyumluluk için AYNEN duruyor). `PythonBridge.kt`
artık her tuşlamada bu hızlı yolu kullanıyor: `json.dumps` + `JSONArray` ayrıştırma
maliyeti olmadan, Chaquopy'nin otomatik liste dönüşümüyle doğrudan `DoubleArray` alıyor.
Python tarafındaki 7 birim test aynen geçiyor (davranış değişmedi, sadece taşıma biçimi).

## 4) Detaylı işlem logu ekranı
- `EngineHost.kt`: her `EKLE`/`GERİ AL` işleminde o anki hakem kararı + her üye modelin
  (🟢 Kotlin ve 🐍 Python meclisi) top1/top2/ağırlık bilgisini `ActivityLogEntry` olarak
  bellekte tutan `activityLog` (son 500 kayıt) eklendi. Ekstra hesap yok — motor bu veriyi
  zaten her adımda üretiyor.
- Yeni `LogScreen.kt`: Ayarlar → "📋 İşlem logları" ile açılır, her satır tıklanınca o
  adımdaki tüm üye modellerin tahminini gösterir. `SettingsScreen.kt`'ye giriş noktası
  eklendi.
- Bonus: "GERİ AL" logu, geri almanın "anında" mı yoksa "tam yeniden kurma" (yavaş yol)
```

[Dosya #03/84 — Devam] Proje Yolu: DUZELTMELER.md (Satır 30 ve sonrası)

```
  ile mi tamamlandığını da gösteriyor — bu, geri alma tuşuyla ilgili olası Python
  senkron sorunlarını adb logcat açmadan doğrudan uygulama içinden teşhis etmenizi sağlar.

## ÖNEMLİ — APK derlemesi hakkında
Bu ortamda (kod asistanının sanal makinesi) Android SDK yok ve ağ erişimi yalnızca
birkaç paket deposuna (PyPI, npm, GitHub vb.) izin veriyor; `services.gradle.org` ve
Google'ın Maven deposu (`dl.google.com`) erişime kapalı. Bu yüzden burada
`./gradlew assembleDebug` çalıştırıp size APK üretemedim (denedim, Gradle dağıtımını
bile indiremedi). Kodu derlemeden gönderiyorum — Python tarafındaki 7 testi burada
çalıştırıp geçtiğini doğruladım, ama Kotlin/Android tarafını gerçek bir Android
araç zinciriyle SİZİN derlemeniz/test etmeniz gerekiyor.

İki kolay yol:
1. **GitHub Actions (önerilen, elinizde zaten var):** Bu projeyi bir GitHub reposuna
   push edin — `.github/workflows/build.yml` otomatik olarak APK üretip
   `FAN_SUPER_APK` adıyla Actions sekmesinde, main dalında ayrıca Releases'e koyuyor.
2. **Android Studio:** Bu zip'i açıp projeyi Android Studio'da açın, JDK 17 + Python 3.11
   kurulu olduğundan emin olun, `./gradlew assembleDebug` (veya Studio'nun "Run" düğmesi).
```

[Dosya #04/84] Proje Yolu: FANLAB_TECHNICAL_NOTES.md

BÖLÜM 1 · Markdown

Kök: /home/user/FanSuper-FANLAB | Boyut: 3.775 B (3.7 KB) | Satır: 62 satır SHA-256: a1230156f6b16136d03799a9fa25dcfe…

```
# FanSuper v1.2 — FAN LAB teknik notları

## Bu sürümde eklenenler

- Kronolojik, leakage-free tahmin kayıtları: her StepLog tahmin olasılıklarını gerçek sonuç öğrenilmeden önce saklar.
- Walk-forward raporlama: motorun gerçek zamanlı öğrenme sırasındaki tahmin serisini ölçer.
- Top-1 / Top-2 ölçümleri ve %25 random baseline.
- Bootstrap %95 güven aralığı.
- Permutation testi ve percentile ölçümü.
- Log loss, Brier score, entropy ve calibration gap.
- Ensemble üyesi disagreement oranı.
- Üye olasılıkları arasında ortalama Jensen-Shannon diversity.
- Son 100 tahmin için performans ve log-loss.
- FAN LAB ekranı ve yeniden çalıştırma düğmesi.
- Uygulama sürümü 1.2 olarak yükseltildi.

## Mevcut mimari korunmuştur

Kotlin Council, Python Council/Chaquopy, Referee, Discovery, Charts, Overlay, DataStore ve Undo akışları kaldırılmadı. FAN LAB mevcut motorun oluşturduğu kronolojik kayıtları analiz eder.

## Doğrulama

- Python undo/state testleri: **7/7 OK**.
- Analytics çekirdeği, Android bağımlılıklarından ayrılmış olarak `kotlinc` ile derlendi ve örnek veri üzerinde çalıştırıldı.
- Bu ortamda Gradle dağıtımı internetten indirilemediği için tam Android APK build'i burada doğrulanamadı. Code On The Go / Android Studio Gradle wrapper üzerinden ilk build alınmalıdır.

## Yorum

FAN LAB istatistikleri gelecekteki bir veri kaynağında avantaj garantisi değildir. Özellikle veri gerçekten bağımsız ve adil rastgele ise modellerin geçmişteki küçük örneklerde yüksek görünmesi gerçek bir öngörü gücü anlamına gelmeyebilir.


## v1.3 — Teknik notlar

### Alfabe ve problem ayrımı
Gerçek veri 1..4 rakamlarından oluşur (N=4). BS: 0=KÜÇÜK (1,2), 1=BÜYÜK (3,4). OE: 0=ÇİFT, 1=TEK. Birleşik: bs*2+oe.
Rakam ve yan ayrı problemlerdir; yan modeller ayrı BS/OE/COMB dizilerinden öğrenir, rakam tahmininden türetilmez.

### Akış
`predict → LOCK → gerçek sonuç → değerlendir → online öğren → rejim/kalibrasyon/ağırlık → persist → yeni predict+LOCK`.
Kilit açıkken ikinci tahmin üretilmez. DEL: önceki anlık görüntüye dönülür; aynı kilitli tahmin geri gelir.

### Meta-ensemble
Her eksen (NUMBER, BS, OE, COMB) için ayrı `AxisEnsemble`. Üye skoru: log-skor kazancı (uzun α=0.01 / kısa α=0.06 EWMA) + rejim kazancı
(n/(n+20) büzülmeli) − kalibrasyon cezası; örnek ve korelasyon çarpanları; ağırlık yumuşatma 0.10; alt sınır 0.15/n.
Lineer olasılık havuzu + öğrenilen sıcaklık τ∈[0.5,1.5] (argmax'ı değiştirmez). Yan: BS ve OE marjinalleri ile birleşik model,
ürün/doğrudan uzmanları arasında Hedge ile geometrik harmanlanır; tek BS + tek OE seçilir.

### Rejim
Çevrimiçi 3 merkezli k-means (flip oranı, dengesizlik; pencere 30), histerezis; REGIME_A/B/C; rejim bazlı doğruluk gerçek sonuçlardan.

### Kalıcılık
Her bileşenin kendi blob'u: ModelState (memory, side, stats, lock, undo.N), RegimeState, EnsembleState (eksen başına), CalibrationState,
ModelPerformance (eksen:model). Açılış: durum uyuşuyorsa devam, daha kısaysa kuyruk yakalama, değilse tam replay.
Python: pickle (`py_state.pkl`, `py_side_state.pkl`) ve önek yüklemesi.

```

[Dosya #04/84 — Devam] Proje Yolu: FANLAB_TECHNICAL_NOTES.md (Satır 56 ve sonrası)

```
### Replay / sızıntı
`ReplayEngine` her adımda geçmişi `copyOf(i)` ile fiziksel keser; kontrol: sıra, lastKnownRecordId, predictionTimestamp ≤ actual Timestamp.
Hata kodları: FAN-E-LEAK-001, LOCK-001/002/003, SEQ-001, STATE-001/002, PY-001, DB-001, REPLAY-001, REC-001.

### Dürüstlük notu
Veri neredeyse rastgeledir (yan doğruluk ≈ %50). Bu sistem bir avantaj garantisi vermez; Replay sekmesindeki bootstrap/permutation
sonuçları yalnızca şanstan ayırt edilebilirlik için tanıdır.
```

[Dosya #05/84] Proje Yolu: COGO_PYTHON_BUILD_FIX.md

BÖLÜM 1 · Markdown

Kök: /home/user/FanSuper-FANLAB | Boyut: 900 B (900 B) | Satır: 15 satır SHA-256: 1495a4d8bd10178f18d973f11e98ce21…

```
# Code on the Go — Chaquopy Python build fix

The project uses Chaquopy 15.0.1 with Python 3.11. Chaquopy requires a **host Python 3.11 interpreter** during the Android build; this is separate from the Python runtime bundled into the APK.

The Gradle script now resolves Code on the Go's embedded Termux/Python installation via `TERMUX_PREFIX` when available, then checks the known Code on the Go prefix and finally falls back to `python3.11`, `python3`, or `python` on PATH.

If the build still reports `Couldn't find Python`, install/enable Code on the Go's **Python/Flask** add-on (it provides Python on the IDE's terminal), restart Code on the Go, and run `:app:assembleDebug` again. No project source changes are required after that.

You can also explicitly set the executable with:

```text
-PchaquopyBuildPython=/path/to/python3.11
```

or the environment variable `CHAQUOPY_BUILD_PYTHON`.
```

[Dosya #06/84] Proje Yolu: GITHUB_UPLOAD.md

BÖLÜM 1 · Markdown

Kök: /home/user/FanSuper-FANLAB | Boyut: 943 B (943 B) | Satır: 18 satır SHA-256: 71cb1888eb9416e0c6ff4b6e0ea59ee5…

```
# GitHub'a Yükleme

Bu paket FanSuper v1.2 + FAN LAB kaynak kodlarının GitHub'a yüklenmeye hazır halidir.

## Önerilen kullanım

1. GitHub'da yeni bir repository oluşturun.
2. Repository'yi Public veya Private seçebilirsiniz.
3. Bu ZIP'i bilgisayarda/telefonda açın.
4. ZIP'in içindeki **proje kökündeki tüm dosya ve klasörleri** repository köküne yükleyin.
5. Özellikle `.github/workflows/build.yml`, `gradlew`, `gradle/`, `app/`, `settings.gradle.kts` ve `.gitignore` dosyaları yüklenmelidir.
6. GitHub Actions sekmesinden **FAN SUPER Build** workflow'unu çalıştırabilirsiniz.

## Önemli

- `build/`, `.gradle/`, `.idea/`, `local.properties`, APK/AAB ve yerel Python ortamları repository'ye dahil edilmemelidir.
- API anahtarı, token, keystore veya özel anahtar commit etmeyin.
- GitHub Actions workflow'u Python 3.11 kurarak Chaquopy tabanlı Python meclisi için gerekli build ortamını hazırlamayı dener.
```

BÖLÜM 2: Gradle, Derleme (Build), Git ve CI/CD Yapılandırma Dosyaları

11 Dosya · 762 Satır · 70.5 KB

Kök ve modül düzeyinde Gradle Kotlin DSL betikleri, Chaquopy/Python 3.11 yapılandırması, Gradle Wrapper dosyaları, Git öznitelikleri ve GitHub Actions iş akışı.

[Dosya #07/84] Proje Yolu: settings.gradle.kts

BÖLÜM 2 · Gradle KTS

Kök: /home/user/FanSuper-FANLAB | Boyut: 328 B (328 B) | Satır: 17 satır SHA-256: fd2db1fced725c877891198bacc50e4c…

```
pluginManagement {
    repositories {
        google()
        mavenCentral()
        gradlePluginPortal()
    }
}
dependencyResolutionManagement {
    repositoriesMode.set(RepositoriesMode.FAIL_ON_PROJECT_REPOS)
    repositories {
        google()
        mavenCentral()
    }
}

rootProject.name = "FAN_SUPER"
include(":app")
```

[Dosya #08/84] Proje Yolu: build.gradle.kts

BÖLÜM 2 · Gradle KTS

Kök: /home/user/FanSuper-FANLAB | Boyut: 269 B (269 B) | Satır: 6 satır SHA-256: feb2d2438579c9b6b93df19541e6c65b…

```
plugins {
    id("com.android.application") version "8.2.2" apply false
    id("org.jetbrains.kotlin.android") version "1.9.22" apply false
    id("com.chaquo.python") version "15.0.1" apply false
    id("com.google.devtools.ksp") version "1.9.22-1.0.17" apply false
}
```

[Dosya #09/84] Proje Yolu: gradle.properties

BÖLÜM 2 · Properties

Kök: /home/user/FanSuper-FANLAB | Boyut: 133 B (133 B) | Satır: 4 satır SHA-256: 1b0d06c4540bd61cab45f373e963c74f…

```
org.gradle.jvmargs=-Xmx3g -Dfile.encoding=UTF-8
android.useAndroidX=true
kotlin.code.style=official
android.nonTransitiveRClass=true
```

[Dosya #10/84] Proje Yolu: app/build.gradle.kts

BÖLÜM 2 · Gradle KTS

Kök: /home/user/FanSuper-FANLAB | Boyut: 3.733 B (3.6 KB) | Satır: 116 satır SHA-256: ac00d0389acfa50ed66ec31a52e01cef…

```
plugins {
    id("com.android.application")
    id("org.jetbrains.kotlin.android")
    id("com.chaquo.python")
    id("com.google.devtools.ksp")
}

android {
    namespace = "fan.superai"
    compileSdk = 34

    defaultConfig {
        applicationId = "fan.superai"
        minSdk = 26
        targetSdk = 34
        versionCode = 5
        versionName = "1.4"

        ndk {
            abiFilters += listOf("arm64-v8a", "armeabi-v7a", "x86_64")
        }
    }

    buildTypes {
        release {
            isMinifyEnabled = false
            signingConfig = signingConfigs.getByName("debug")
        }
    }

    compileOptions {
        sourceCompatibility = JavaVersion.VERSION_17
        targetCompatibility = JavaVersion.VERSION_17
```

[Dosya #10/84 — Devam] Proje Yolu: app/build.gradle.kts (Satır 34 ve sonrası)

```
34      }
35      kotlinOptions {
36          jvmTarget = "17"
37      }
38      testOptions {
39          unitTests.isIncludeAndroidResources = true
40      }
41      buildFeatures {
42          compose = true
43          buildConfig = true
44      }
45      composeOptions {
46          kotlinCompilerExtensionVersion = "1.5.8"
47      }
48      packaging {
49          resources.excludes += "/META-INF/{AL2.0,LGPL2.1}"
50      }
51  }
52
53  // Code on the Go keeps its host-Python installation inside the IDE sandbox.
54  // Chaquopy normally searches PATH, but CoGo's embedded Python is not always on
55  // Gradle's PATH. Resolve it explicitly when available, while still allowing
56  // normal desktop/CI builds to use the standard Python commands.
57  fun resolveChaquopyBuildPython(): String? {
58      val explicit = providers.gradleProperty("chaquopyBuildPython").orNull
59          ?: System.getenv("CHAQUOPY_BUILD_PYTHON")
60      if (!explicit.isNullOrBlank()) return explicit
61
62      val termuxPrefix = System.getenv("TERMUX_PREFIX")
63      val candidates = buildList {
64          if (!termuxPrefix.isNullOrBlank()) {
65              add("$termuxPrefix/bin/python3.11")
66              add("$termuxPrefix/bin/python3")
67          }
68          add("/data/data/com.itsaky.androidide/files/usr/bin/python3.11")
69          add("/data/data/com.itsaky.androidide/files/usr/bin/python3")
70          add("/data/data/com.appdevforall.codeonthego/files/usr/bin/python3.11")
71          add("/data/data/com.appdevforall.codeonthego/files/usr/bin/python3")
72      }
73      candidates.firstOrNull { File(it).canExecute() }?.let { return it }
74
75      // Desktop/CI fallback: only select a command which is actually executable.
76      listOf("python3.11", "python3", "python").firstOrNull { command ->
77          try {
78              ProcessBuilder(command, "--version")
79                  .redirectErrorStream(true)
80                  .start()
81                  .waitFor() == 0
82          } catch (_: Exception) {
83              false
84          }
85      }?.let { return it }
86
87      return null
88  }
89
90  chaquopy {
91      defaultConfig {
92          version = "3.11"
93          resolveChaquopyBuildPython()?.let { buildPython(it) }
94          pip {
95              install("numpy")
96          }
97      }
98  }
99
100 dependencies {
101     implementation("androidx.core:core-ktx:1.12.0")
102     implementation("androidx.activity:activity-compose:1.8.2")
103     implementation("androidx.lifecycle:lifecycle-runtime-ktx:2.7.0")
104     implementation("androidx.lifecycle:lifecycle-service:2.7.0")
105     implementation("org.jetbrains.kotlinx:kotlinx-coroutines-android:1.7.3")
106     implementation(platform("androidx.compose:compose-bom:2024.02.00"))
107     implementation("androidx.compose.ui:ui")
108     implementation("androidx.compose.ui:ui-graphics")
109     implementation("androidx.compose.foundation:foundation")
110     implementation("androidx.compose.material3:material3")
111     implementation("androidx.room:room-runtime:2.6.1")
112     implementation("androidx.room:room-ktx:2.6.1")
113     ksp("androidx.room:room-compiler:2.6.1")
114     testImplementation("junit:junit:4.13.2")
115     testImplementation("org.robolectric:robolectric:4.12.2")
116 }
```

[Dosya #11/84] Proje Yolu: gradle/wrapper/gradle-wrapper.properties

BÖLÜM 2 · Properties

Kök: /home/user/FanSuper-FANLAB | Boyut: 250 B (250 B) | Satır: 7 satır SHA-256: 7e1d39503dd81e9efcfdcb507c788d30…

```
distributionBase=GRADLE_USER_HOME
distributionPath=wrapper/dists
distributionUrl=https\://services.gradle.org/distributions/gradle-8.5-bin.zip
networkTimeout=10000
validateDistributionUrl=true
zipStoreBase=GRADLE_USER_HOME
zipStorePath=wrapper/dists
```

[Dosya #12/84] Proje Yolu: gradle/wrapper/gradle-wrapper.jar

BÖLÜM 2 · Java Archive (JAR)

Kök: /home/user/FanSuper-FANLAB | Boyut: 45.457 B (44.4 KB) | Satır: İkili (Binary) SHA-256: 76805e32c009c0cf0dd5d206bddc9fb2…

```
=== GRADLE WRAPPER IKILI ARSIV (JAR) ICERIK RAPORU ===
Dosya Yolu     : gradle/wrapper/gradle-wrapper.jar
Dosya Boyutu   : 45457 bayt (44.4 KB)
SHA-256 Özeti  : 76805e32c009c0cf0dd5d206bddc9fb22ea42e84db904b764f3047de095493f3
Toplam Girdi   : 33 dosya (.class ve META-INF kaynakları)

--- [1] META-INF/MANIFEST.MF TAM İÇERİĞİ ---
Manifest-Version: 1.0
Implementation-Title: Gradle Wrapper
SPDX-License-Identifier: Apache-2.0
Main-Class: org.gradle.wrapper.GradleWrapperMain
Enable-Native-Access: ALL-UNNAMED

--- [2] JAR ARŞİVİ İÇİNDEKİ TÜM DOSYA VE SINIFLAR TABLOSU (34 GİRDİ) ---
 No  Arşiv İçi Dosya / Sınıf Yolu                                    Açık Boyut  Sıkıştırılmış     CRC-32
-----------------------------------------------------------------------------------------------------------
  1  META-INF/LICENSE                                                  10174 B         3561 B   1EA3B7B0
  2  META-INF/MANIFEST.MF                                                185 B          149 B   5ACBCF6A
  3  org/gradle/cli/CommandLineArgumentException.class                   368 B          291 B   A7B844CB
  4  org/gradle/cli/CommandLineOption.class                              987 B          654 B   5E0ACA07
  5  org/gradle/cli/CommandLineParser$AfterOptions.class                1206 B          604 B   C0E3FAD7
  6  org/gradle/cli/CommandLineParser$BeforeFirstSubCommand.class       1939 B          852 B   0ABA9C94
  7  org/gradle/cli/CommandLineParser$KnownOptionParserState.class      3842 B         1862 B   B16ABB0E
  8  org/gradle/cli/CommandLineParser$MissingOptionArgState.class       1175 B          588 B   B95185D3
  9  org/gradle/cli/CommandLineParser$OptionAwareParserState.class      1354 B          726 B   9191CFA4
 10  org/gradle/cli/CommandLineParser$OptionParserState.class            637 B          416 B   5A5EBCC3
 11  org/gradle/cli/CommandLineParser$OptionString.class                 870 B          546 B   6A257A77
 12  org/gradle/cli/CommandLineParser$ParserState.class                  718 B          426 B   2E3ADCA5
 13  org/gradle/cli/CommandLineParser$UnknownOptionParserState.class    1223 B          628 B   BE1FF564
 14  org/gradle/cli/CommandLineParser.class                             2258 B         1259 B   3FECCDE9
 15  org/gradle/cli/ParsedCommandLine.class                             2130 B         1155 B   94351312
 16  org/gradle/cli/ParsedCommandLineOption.class                        428 B          338 B   02F038AE
 17  org/gradle/internal/file/PathTraversalChecker.class                1208 B          787 B   B774D28E
 18  org/gradle/internal/file/locking/ExclusiveFileAccessManager.class   550 B          413 B   4052ABF9
 19  org/gradle/util/internal/WrapperDistributionUrlConverter.class      711 B          475 B   84534425
 20  org/gradle/wrapper/BootstrapMainStarter$1.class                     542 B          400 B   E394FB49
 21  org/gradle/wrapper/Download$DefaultDownloadProgressListener.class  1298 B          844 B   8B4A5E97
 22  org/gradle/wrapper/Download$ProxyAuthenticator.class               1345 B          775 B   1DEB989A
 23  org/gradle/wrapper/Download.class                                  4838 B         2521 B   3ECE29E6
 24  org/gradle/wrapper/GradleUserHomeLookup.class                       690 B          474 B   DA1DB8AB
 25  org/gradle/wrapper/GradleWrapperMain.class                         11613 B         5760 B   B6D80CD4
 26  org/gradle/wrapper/Install$1.class                                  6322 B         3268 B   425193F3
 27  org/gradle/wrapper/Install$InstallCheck.class                       487 B          362 B   8F83A7A6
 28  org/gradle/wrapper/Install.class                                    8036 B         4195 B   F6F74477
 29  org/gradle/wrapper/Logger.class                                     1114 B          603 B   6B18D870
 30  org/gradle/wrapper/PathAssembler.class                               362 B          292 B   6A308DB6
 31  org/gradle/wrapper/PropertiesFileHandler.class                      1894 B         1074 B   CCB50898
 32  org/gradle/wrapper/WrapperConfiguration.class                       1616 B          751 B   2FCF7F50
 33  org/gradle/wrapper/WrapperExecutor.class                            3396 B         1698 B   77D7F85D

--- [3] META-INF/LICENSE (APACHE LICENSE 2.0 BAŞLIĞI) ---

                                 Apache License
                           Version 2.0, January 2004
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      otherwise, or (ii) ownership of fifty percent (50%) or more of the
```

[Dosya #12/84 — Devam] Proje Yolu: gradle/wrapper/gradle-wrapper.jar (Satır 73 ve sonrası)

```
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```

[Dosya #13/84] Proje Yolu: gradlew

BÖLÜM 2 · POSIX Shell

Kök: /home/user/FanSuper-FANLAB | Boyut: 8.728 B (8.5 KB) | Satır: 251 satır SHA-256: 3238afb2aed5cb16eb7d6718077e7138…

```
#!/bin/sh

#
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#
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# you may not use this file except in compliance with the License.
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#

##############################################################################
#
#   Gradle start up script for POSIX generated by Gradle.
#
#   Important for running:
#
#   (1) You need a POSIX-compliant shell to run this script. If your /bin/sh is
#       noncompliant, but you have some other compliant shell such as ksh or
#       bash, then to run this script, type that shell name before the whole
#       command line, like:
#
#           ksh Gradle
#
#       Busybox and similar reduced shells will NOT work, because this script
#       requires all of these POSIX shell features:
#         * functions;
#         * expansions «$var», «${var}», «${var:-default}», «${var+SET}»,
#           «${var#prefix}», «${var%suffix}», and «$( cmd )»;
#         * compound commands having a testable exit status, especially «case»;
#         * various built-in commands including «command», «set», and «ulimit».
#
#   Important for patching:
#
#   (2) This script targets any POSIX shell, so it avoids extensions provided
#       by Bash, Ksh, etc; in particular arrays are avoided.
#
#       The "traditional" practice of packing multiple parameters into a
#       space-separated string is a well documented source of bugs and security
#       problems, so this is (mostly) avoided, by progressively accumulating
#       options in "$@", and eventually passing that to Java.
#
#       Where the inherited environment variables (DEFAULT_JVM_OPTS, JAVA_OPTS,
#       and GRADLE_OPTS) rely on word-splitting, this is performed explicitly;
#       see the in-line comments for details.
#
#       There are tweaks for specific operating systems such as AIX, CygWin,
#       Darwin, MinGW, and NonStop.
#
#   (3) This script is generated from the Groovy template
#       https://github.com/gradle/gradle/blob/HEAD/platforms/jvm/plugins-application/src/main/resources/org/gradle/api/internal/plugins/unixStartScript.txt
#       within the Gradle project.
#
#       You can find Gradle at https://github.com/gradle/gradle/.
#
##############################################################################

# Attempt to set APP_HOME

# Resolve links: $0 may be a link
app_path=$0

# Need this for daisy-chained symlinks.
while
    APP_HOME=${app_path%"${app_path##*/}"}  # leaves a trailing /; empty if no leading path
    [ -h "$app_path" ]
```

[Dosya #13/84 — Devam] Proje Yolu: gradlew (Satır 76 ve sonrası)

```
76  do
77      ls=$( ls -ld "$app_path" )
78      link=${ls#*' -> '}
79      case $link in             #(
80        /*)   app_path=$link ;; #(
81        *)    app_path=$APP_HOME$link ;;
82      esac
83  done
84
85  # This is normally unused
86  # shellcheck disable=SC2034
87  APP_BASE_NAME=${0##*/}
88  # Discard cd standard output in case $CDPATH is set (https://github.com/gradle/gradle/issues/25036)
89  APP_HOME=$( cd -P "${APP_HOME:-./}" > /dev/null && printf '%s\n' "$PWD" ) || exit
90
91  # Use the maximum available, or set MAX_FD != -1 to use that value.
92  MAX_FD=maximum
93
94  warn () {
95      echo "$*"
96  } >&2
97
98  die () {
99      echo
100     echo "$*"
101     echo
102     exit 1
103 } >&2
104
105 # OS specific support (must be 'true' or 'false').
106 cygwin=false
107 msys=false
108 darwin=false
109 nonstop=false
110 case "$( uname )" in                #(
111   CYGWIN* )         cygwin=true  ;; #(
112   Darwin* )         darwin=true  ;; #(
113   MSYS* | MINGW* )  msys=true    ;; #(
114   NONSTOP* )        nonstop=true ;;
115 esac
116
117 CLASSPATH="\\\"\\\""
118
119
120 # Determine the Java command to use to start the JVM.
121 if [ -n "$JAVA_HOME" ] ; then
122     if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
123         # IBM's JDK on AIX uses strange locations for the executables
124         JAVACMD=$JAVA_HOME/jre/sh/java
125     else
126         JAVACMD=$JAVA_HOME/bin/java
127     fi
128     if [ ! -x "$JAVACMD" ] ; then
129         die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME
130
131 Please set the JAVA_HOME variable in your environment to match the
132 location of your Java installation."
133     fi
134 else
135     JAVACMD=java
136     if ! command -v java >/dev/null 2>&1
137     then
138         die "ERROR: JAVA_HOME is not set and no 'java' command could be found in your PATH.
139
140 Please set the JAVA_HOME variable in your environment to match the
141 location of your Java installation."
142     fi
143 fi
144
145 # Increase the maximum file descriptors if we can.
146 if ! "$cygwin" && ! "$darwin" && ! "$nonstop" ; then
147     case $MAX_FD in #(
148       max*)
149         # In POSIX sh, ulimit -H is undefined. That's why the result is checked to see if it worked.
150         # shellcheck disable=SC2039,SC3045
151         MAX_FD=$( ulimit -H -n ) ||
152             warn "Could not query maximum file descriptor limit"
153     esac
154     case $MAX_FD in  #(
155       '' | soft) :;; #(
156       *)
157         # In POSIX sh, ulimit -n is undefined. That's why the result is checked to see if it worked.
158         # shellcheck disable=SC2039,SC3045
159         ulimit -n "$MAX_FD" ||
160             warn "Could not set maximum file descriptor limit to $MAX_FD"
```

[Dosya #13/84 — Devam] Proje Yolu: gradlew (Satır 161 ve sonrası)

```
    esac
fi

# Collect all arguments for the java command, stacking in reverse order:
#   * args from the command line
#   * the main class name
#   * -classpath
#   * -D...appname settings
#   * --module-path (only if needed)
#   * DEFAULT_JVM_OPTS, JAVA_OPTS, and GRADLE_OPTS environment variables.

# For Cygwin or MSYS, switch paths to Windows format before running java
if "$cygwin" || "$msys" ; then
    APP_HOME=$( cygpath --path --mixed "$APP_HOME" )
    CLASSPATH=$( cygpath --path --mixed "$CLASSPATH" )

    JAVACMD=$( cygpath --unix "$JAVACMD" )

    # Now convert the arguments - kludge to limit ourselves to /bin/sh
    for arg do
        if
            case $arg in                                #(
              -*)   false ;;                            # don't mess with options #(
              /?*)  t=${arg#/} t=/${t%%/*}              # looks like a POSIX filepath
                    [ -e "$t" ] ;;                      #(
              *)    false ;;
            esac
        then
            arg=$( cygpath --path --ignore --mixed "$arg" )
        fi
        # Roll the args list around exactly as many times as the number of
        # args, so each arg winds up back in the position where it started, but
        # possibly modified.
        #
        # NB: a `for` loop captures its iteration list before it begins, so
        # changing the positional parameters here affects neither the number of
        # iterations, nor the values presented in `arg`.
        shift                   # remove old arg
        set -- "$@" "$arg"      # push replacement arg
    done
fi


# Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this script.
DEFAULT_JVM_OPTS='"-Xmx64m" "-Xms64m"'

# Collect all arguments for the java command:
#   * DEFAULT_JVM_OPTS, JAVA_OPTS, and optsEnvironmentVar are not allowed to contain shell fragments,
#     and any embedded shellness will be escaped.
#   * For example: A user cannot expect ${Hostname} to be expanded, as it is an environment variable and will be
#     treated as '${Hostname}' itself on the command line.

set -- \
        "-Dorg.gradle.appname=$APP_BASE_NAME" \
        -classpath "$CLASSPATH" \
        -jar "$APP_HOME/gradle/wrapper/gradle-wrapper.jar" \
        "$@"

# Stop when "xargs" is not available.
if ! command -v xargs >/dev/null 2>&1
then
    die "xargs is not available"
fi

# Use "xargs" to parse quoted args.
#
# With -n1 it outputs one arg per line, with the quotes and backslashes removed.
#
# In Bash we could simply go:
#
#   readarray ARGS < <( xargs -n1 <<<"$var" ) &&
#   set -- "${ARGS[@]}" "$@"
#
# but POSIX shell has neither arrays nor command substitution, so instead we
# post-process each arg (as a line of input to sed) to backslash-escape any
# character that might be a shell metacharacter, then use eval to reverse
# that process (while maintaining the separation between arguments), and wrap
# the whole thing up as a single "set" statement.
#
# This will of course break if any of these variables contains a newline or
# an unmatched quote.
#

eval "set -- $(
        printf '%s\n' "$DEFAULT_JVM_OPTS $JAVA_OPTS $GRADLE_OPTS" |
```

[Dosya #13/84 — Devam] Proje Yolu: gradlew (Satır 246 ve sonrası)

```
        xargs -n1 |
        sed ' s~[^-[:alnum:]+,./:=@_]~\\&~g; ' |
        tr '\n' ' '
    )" '"$@"'

exec "$JAVACMD" "$@"
```

[Dosya #14/84] Proje Yolu: gradlew.bat

BÖLÜM 2 · Windows Batch

Kök: /home/user/FanSuper-FANLAB | Boyut: 2.937 B (2.9 KB) | Satır: 94 satır SHA-256: 1d297e00bd21de3ace22b4d7f2de1f9d…

```
@rem
@rem Copyright 2015 the original author or authors.
@rem
@rem Licensed under the Apache License, Version 2.0 (the "License");
@rem you may not use this file except in compliance with the License.
@rem You may obtain a copy of the License at
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@rem      https://www.apache.org/licenses/LICENSE-2.0
@rem
@rem Unless required by applicable law or agreed to in writing, software
@rem distributed under the License is distributed on an "AS IS" BASIS,
@rem WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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@rem limitations under the License.
@rem
@rem SPDX-License-Identifier: Apache-2.0
@rem

@if "%DEBUG%"== @echo off
@rem ##########################################################################
@rem
@rem  Gradle startup script for Windows
@rem
@rem ##########################################################################

@rem Set local scope for the variables with windows NT shell
if "%OS%"="Windows_NT" setlocal

set DIRNAME=%~dp0
if "%DIRNAME%"== set DIRNAME=.
@rem This is normally unused
set APP_BASE_NAME=%~n0
set APP_HOME=%DIRNAME%

@rem Resolve any "." and ".." in APP_HOME to make it shorter.
for %%i in ("%APP_HOME%") do set APP_HOME=%%~fi

@rem Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this script.
set DEFAULT_JVM_OPTS="-Xmx64m" "-Xms64m"

@rem Find java.exe
if defined JAVA_HOME goto findJavaFromJavaHome

set JAVA_EXE=java.exe
%JAVA_EXE% -version >NUL 2>&1
if %ERRORLEVEL% equ 0 goto execute

echo. 1>&2
echo ERROR: JAVA_HOME is not set and no 'java' command could be found in your PATH. 1>&2
echo. 1>&2
echo Please set the JAVA_HOME variable in your environment to match the 1>&2
echo location of your Java installation. 1>&2

goto fail

:findJavaFromJavaHome
set JAVA_HOME=%JAVA_HOME:"=%
set JAVA_EXE=%JAVA_HOME%/bin/java.exe

if exist "%JAVA_EXE%" goto execute

echo. 1>&2
echo ERROR: JAVA_HOME is set to an invalid directory: %JAVA_HOME% 1>&2
echo. 1>&2
echo Please set the JAVA_HOME variable in your environment to match the 1>&2
echo location of your Java installation. 1>&2

goto fail

:execute
@rem Setup the command line

set CLASSPATH=
```

[Dosya #14/84 — Devam] Proje Yolu: gradlew.bat (Satır 74 ve sonrası)

```
74
75
76 @rem Execute Gradle
77 "%JAVA_EXE%" %DEFAULT_JVM_OPTS% %JAVA_OPTS% %GRADLE_OPTS% "-Dorg.gradle.appname=%APP_BASE_NAME%" -classpath "%CLASSPATH%" -jar "
↳ %APP_HOME%\gradle\wrapper\gradle-wrapper.jar" %*
78
79 :end
80 @rem End local scope for the variables with windows NT shell
81 if %ERRORLEVEL% equ 0 goto mainEnd
82
83 :fail
84 rem Set variable GRADLE_EXIT_CONSOLE if you need the _script_ return code instead of
85 rem the _cmd.exe /c_ return code!
86 set EXIT_CODE=%ERRORLEVEL%
87 if %EXIT_CODE% equ 0 set EXIT_CODE=1
88 if not ""=="%GRADLE_EXIT_CONSOLE%" exit %EXIT_CODE%
89 exit /b %EXIT_CODE%
90
91 :mainEnd
92 if "%OS%"=="Windows_NT" endlocal
93
94 :omega
```

[Dosya #15/84] Proje Yolu: .github/workflows/build.yml

BÖLÜM 2 · YAML (CI/CD)

Kök: /home/user/FanSuper-FANLAB | Boyut: 9.714 B (9.5 KB) | Satır: 202 satır SHA-256: 0c872f76ada8a0e0815b38b90dfa0ae1…

```yaml
name: FAN SUPER Build

on:
  push:
    branches: [ main, "arena/**" ]
  pull_request:
  workflow_dispatch:

permissions:
  contents: write

jobs:
  build:
    runs-on: ubuntu-latest
    timeout-minutes: 45
    steps:
      - uses: actions/checkout@v4

      - name: JDK 17
        uses: actions/setup-java@v4
        with:
          distribution: temurin
          java-version: "17"

      - name: Python 3.11 (Chaquopy derleme için)
        uses: actions/setup-python@v5
        with:
          python-version: "3.11"

      - name: Gradle
        uses: gradle/actions/setup-gradle@v3

      - name: Python meclisi testi (hızlı geri alma)
        run: |
          pip install "numpy<2"
          cd app/src/main/python
          set +e
          python - > py_smoke.log 2>&1 <<'PY'
          import json, time, fan_super as fs
          v=[i%4 for i in range(120)]; t=[1700000000+i for i in range(120)]
          fs.configure(json.dumps({"window":100}))
          r=json.loads(fs.replay(json.dumps(v), json.dumps(t)))
          assert len(r["per"])==120 and len(r["next"])==4
          nxt=r["next"]
          fs.step(1, 1700000200)
          t0=time.time(); back=json.loads(fs.undo_to(120)); dt=(time.time()-t0)*1000.0
          assert max(abs(a-b) for a,b in zip(nxt,back)) < 1e-12, "geri alma tahmini bozdu"
          assert dt < 2000, "geri alma cok yavas: %.1f ms" % dt
          assert fs.undo_to(80), "derin geri alma basarisiz"
          print("Python meclisi OK · undo %.1f ms ·" % dt, fs.info())
          PY
          r1=$?
          ( python ../../test/python/test_fan_super.py -v && python ../../test/python/test_fan_side.py -v ) > py_undo.log 2>&1
          r2=$?
          set -e
          R1=$r1 R2=$r2 python3 - <<'ANN'
          import os
```

[Dosya #15/84 — Devam] Proje Yolu: .github/workflows/build.yml (Satır 58 ve sonrası)

```
58          def esc(t):
59              return t.replace('%', '%25').replace('\r', '').replace('\n', '%0A')
60          rc = {"smoke": int(os.environ["R1"]), "unittest": int(os.environ["R2"])}
61          with open(os.environ['GITHUB_STEP_SUMMARY'], 'a') as summary:
62              summary.write('### Python meclisi\n')
63              for name, log in (("smoke", "py_smoke.log"), ("unittest", "py_undo.log")):
64                  try:
65                      text = open(log, encoding="utf-8", errors="replace").read()
66                  except Exception as e:
67                      text = "log okunamadi: %s" % e
68                  tail = text[-5000:]
69                  summary.write('- **%s**: exit %d\n\n```\n%s\n```\n' % (name, rc[name], text[-2000:]))
70                  print('::%s title=python-%s (exit %d)::%s' % (
71                      'error' if rc[name] else 'notice', name, rc[name], esc(tail)))
72          ANN
73          [ "$r1" = "0" ] && [ "$r2" = "0" ]
74
75      - name: Overlay testleri ve APK derle
76        run: |
77          chmod +x gradlew
78          set -o pipefail
79          ./gradlew --no-daemon testDebugUnitTest assembleRelease 2>&1 | tee build.log
80
81      - name: Test sonuçları (annotation)
82        if: always()
83        run: |
84          python3 - <<'PYTEST'
85          import glob, os, xml.etree.ElementTree as ET
86          def escape(text):
87              return text.replace('%', '%25').replace('\r', '%0D').replace('\n', '%0A')
88          with open(os.environ['GITHUB_STEP_SUMMARY'], 'a') as summary:
89              for path in glob.glob('app/build/test-results/testDebugUnitTest/TEST-*.xml'):
90                  suite = ET.parse(path).getroot()
91                  print('::notice title=Overlay test results::Tests: %s; failures: %s; errors: %s' % (
92                      suite.get('tests'), suite.get('failures'), suite.get('errors')))
93                  summary.write('### %s\nTests: %s · Failures: %s · Errors: %s\n' % (
94                      suite.get('name'), suite.get('tests'), suite.get('failures'), suite.get('errors')))
95                  for case in suite.findall('testcase'):
96                      for failure in list(case.findall('failure')) + list(case.findall('error')):
97                          print('::error title=%s::%s' % (escape(case.get('name', 'Test')), escape((failure.text or failure.get(
 ↳ 'message', ''))[:6000])))
98          PYTEST
99
100     - name: Hata özeti (annotation)
101       if: failure()
102       run: |
103         if [ -f build.log ]; then
104           grep -E "^e: |error:|What went wrong|Could not|> [A-Z]|FAILURE|Exception|Caused by|not found|Unresolved|ERROR" build
 ↳ .log | grep -v "^\s*at " | head -120 > err.txt || true
105           [ -s err.txt ] || tail -80 build.log > err.txt
106         else
107           echo "build.log yok (derleme adımı çalışmadı)" > err.txt
108         fi
109         python3 - <<'PY'
110         lines=open('err.txt',encoding='utf-8',errors='replace').read().splitlines()
111         for i in range(0,len(lines),30):
112             chunk='%0A'.join(l.replace('%','%25').replace('\r','') for l in lines[i:i+30])
113             print('::error title=build-log-%d::%s' % (i//30, chunk))
114         PY
115
116     - name: Test raporları
117       if: always()
118       uses: actions/upload-artifact@v4
119       with:
120         name: overlay-test-reports
121         path: |
122           app/build/reports/tests/
123           app/build/test-results/
124         if-no-files-found: ignore
125
126     - name: Sürümlü APK ve v1.4 kaynak ZIP paketi (yalnızca çalışan kaynaklar + eski veri)
127       id: package
128       run: |
129         set -euo pipefail
130         VERSION=$(python3 - <<'PYVERSION'
131         import json, re
132         meta = json.load(open("app/build/outputs/apk/release/output-metadata.json"))["elements"][0]["versionName"]
133         gradle = re.search(r'versionName\s*=\s*"([^"]+)"', open("app/build.gradle.kts").read()).group(1)
134         assert gradle == meta, "versionName tutarsiz: gradle=%s apk=%s" % (gradle, meta)
135         print(meta)
136         PYVERSION
137         )
138         echo "version=$VERSION" >> "$GITHUB_OUTPUT"
139         mkdir -p out pkg
140         cp app/build/outputs/apk/release/app-release.apk "out/FAN_SUPER_v${VERSION}_build${{ github.run_number }}.apk"
```

[Dosya #15/84 — Devam] Proje Yolu: .github/workflows/build.yml (Satır 141 ve sonrası)

```
          # Çalışan kaynak ağacı: yalnızca bu commit'in izlediği dosyalar.
          # Yerel ayarlar, anahtarlar, loglar, APK ve build klasörleri zaten git'te yok.
          PROJECT="FanSuper_v${VERSION}"
          git archive --format=tar --prefix="${PROJECT}/" HEAD | tar -x -C pkg
          # Kök CSV, uygulamanın varlık (assets) kopyasıyla birebir aynı: pakette tek kopya
          # olarak "veri/" altında verilir, proje içinde tekrar edilmez.
          rm -f "pkg/${PROJECT}/fan_data_live.csv"
          # Sadece eski veriler: geçmiş fan kayıtları (uygulama ilk açılışta bunu yükler).
          mkdir -p pkg/veri
          cp app/src/main/assets/fan_data_live.csv pkg/veri/fan_data_live.csv
          (cd pkg && zip -r -q -X "../out/FanSuper_v${VERSION}.zip" "${PROJECT}" veri)
          (cd out && sha256sum *.apk *.zip > SHA256SUMS.txt)
          # Paket denetimi: derleme çıktısı/log/anahtar/yerel ayar bulunmamalı.
          if unzip -l "out/FanSuper_v${VERSION}.zip" | grep -E "\.apk|\.log|\.keystore|\.jks|local\.properties|/build/|\.git/"; then
            echo "::error title=ZIP içeriği::paket içinde istenmeyen dosya var"; exit 1
          fi
          unzip -l "out/FanSuper_v${VERSION}.zip" | grep -q "veri/fan_data_live.csv"
          unzip -l "out/FanSuper_v${VERSION}.zip" | grep -q "${PROJECT}/app/src/main/java/fan/superai/v13/Brain.kt"
          unzip -l "out/FanSuper_v${VERSION}.zip" | grep -q "${PROJECT}/settings.gradle.kts"
          unzip -t "out/FanSuper_v${VERSION}.zip" | tail -1
          unzip -l "out/FanSuper_v${VERSION}.zip" | tail -5
          ls -lh out

      - name: Artifact yükle
        uses: actions/upload-artifact@v4
        with:
          name: FAN_SUPER_APK
          path: out/*.apk

      - name: Kaynak kod artifact'ı
        uses: actions/upload-artifact@v4
        with:
          name: FanSuper_SOURCE
          path: |
            out/FanSuper_v*.zip
            out/SHA256SUMS.txt

      - name: Release (main)
        if: github.ref == 'refs/heads/main' && github.event_name != 'pull_request'
        uses: softprops/action-gh-release@v2
        with:
          tag_name: v${{ steps.package.outputs.version }}-build${{ github.run_number }}
          name: FAN SUPER v${{ steps.package.outputs.version }} (build ${{ github.run_number }})
          body: |
            ## FAN SUPER v${{ steps.package.outputs.version }}
            - Overlay v1.4: en üstte Kotlin rakam, altında Python rakam, altında KISA yan (B•T / K•Ç)
              ve en altta nihai çıktı (rakam + yan) — dört satır, aynı mavi kart.
            - Ayarlar: yüzdelik seçimi (Yedeğe düşme eşiği) artık seçili değeri gösteriyor;
              değer Float'a düşmeden tam saklanıyor.
            - Otomatik tek/çift (konformal) kararı artık nihai tahmini ve overlay'i sürüyor:
              Otomatik / Her zaman çift / Her zaman tek seçimi K/Py/RAKAM satırlarına uygulanır.
            - Ana ekran ve FAN LAB çift kararda "1/2" gösterir; tek/çift kararı kilit bağlamıyla saklanır.
            - v1.3 davranışı korunur: kalıcı hafıza, replay, sızıntı koruması, FAN LAB, geri alma.

            **FAN_SUPER_v${{ steps.package.outputs.version }}_build${{ github.run_number }}.apk** → Android uygulaması (release derleme).
            **FanSuper_v${{ steps.package.outputs.version }}.zip** → çalışan v1.4 kaynakları (Code on the Go / Android Studio içe aktarımı)
            + `veri/fan_data_live.csv` (yalnızca eski kayıtlar).
            **SHA256SUMS.txt** → APK ve ZIP doğrulama özetleri.
          files: |
            out/*.apk
            out/FanSuper_v*.zip
            out/SHA256SUMS.txt
```

[Dosya #16/84] Proje Yolu: .gitignore **BÖLÜM 2 · Git Config**

Kök: /home/user/FanSuper-FANLAB | Boyut: 486 B (486 B) | Satır: 53 satır SHA-256: 6374dc77f4864ca4b2fe80574e0397e3…

```
# Android / Gradle
.gradle/
**/build/
/local.properties

# Android Studio / IntelliJ
.idea/
*.iml
*.ipr
*.iws

# Native / generated
.cxx/
.externalNativeBuild/
```

[Dosya #16/84 — Devam] Proje Yolu: .gitignore (Satır 15 ve sonrası)

```
.cxx/

# OS / editor
.DS_Store
Thumbs.db
.vscode/

# Android outputs
*.apk
*.aab
captures/

# Python
__pycache__/
*.py[cod]
*.pyo
.pytest_cache/
.venv/
venv/
env/

# Logs / reports
*.log
reports/

# Secrets / local credentials
*.keystore
*.jks
*.pem
*.p12
.env
.env.*
local.properties

# Temporary files
*.tmp
*.temp
*.swp
*~
```

[Dosya #17/84] Proje Yolu: .gitattributes

BÖLÜM 2 · Git Config

Kök: /home/user/FanSuper-FANLAB | Boyut: 189 B (189 B) | Satır: 12 satır SHA-256: 9260dc15eb7d31bcc4269b93c7608cd9…

```
* text=auto
*.bat text eol=crlf
*.sh text eol=lf
*.py text eol=lf
*.kt text eol=lf
*.kts text eol=lf
*.md text eol=lf
*.csv text eol=lf
*.png binary
*.jpg binary
*.jpeg binary
*.jar binary
```

BÖLÜM 3: Android Manifest ve Uygulama Kaynak Dosyaları (XML & Res)

8 Dosya · 88 Satır · 4.2 KB

AndroidManifest.xml, vektör uygulama ikonu, adaptive launcher ikonları, renk/metin/tema tanımları ve veri çıkarma kuralları.

[Dosya #18/84] Proje Yolu: app/src/main/AndroidManifest.xml

BÖLÜM 3 · XML

Kök: /home/user/FanSuper-FANLAB | Boyut: 1.641 B (1.6 KB) | Satır: 40 satır SHA-256: 997455cacf21c05affbf806fa9bd7e48…

```xml
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android">

    <uses-permission android:name="android.permission.SYSTEM_ALERT_WINDOW"/>
    <uses-permission android:name="android.permission.VIBRATE"/>
    <uses-permission android:name="android.permission.FOREGROUND_SERVICE"/>
    <uses-permission android:name="android.permission.FOREGROUND_SERVICE_SPECIAL_USE"/>
    <uses-permission android:name="android.permission.POST_NOTIFICATIONS"/>

    <application
        android:name=".FanApp"
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:icon="@mipmap/ic_launcher"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:label="@string/app_name"
        android:supportsRtl="true"
        android:largeHeap="true"
        android:theme="@style/Theme.FanSuper">

        <activity
            android:name=".ui.MainActivity"
            android:exported="true"
            android:windowSoftInputMode="adjustResize">
            <intent-filter>
                <action android:name="android.intent.action.MAIN"/>
                <category android:name="android.intent.category.LAUNCHER"/>
            </intent-filter>
        </activity>

        <service
            android:name=".overlay.OverlayService"
            android:exported="false"
            android:foregroundServiceType="specialUse">
            <property
                android:name="android.app.PROPERTY_SPECIAL_USE_FGS_SUBTYPE"
                android:value="Ekran üstü tahmin paneli"/>
        </service>
    </application>
</manifest>
```

[Dosya #19/84] Proje Yolu: app/src/main/res/drawable/ic_fan_super.xml

BÖLÜM 3 · XML

Kök: /home/user/FanSuper-FANLAB | Boyut: 1.142 B (1.1 KB) | Satır: 14 satır SHA-256: 98c61134962ebf7c66d8e20fccffd9ca…

```xml
<?xml version="1.0" encoding="utf-8"?>
<vector xmlns:android="http://schemas.android.com/apk/res/android"
    android:width="108dp" android:height="108dp"
    android:viewportWidth="108" android:viewportHeight="108">
    <group android:scaleX="0.62" android:scaleY="0.62" android:translateX="20.5" android:translateY="20.5">
        <path android:fillColor="#0D47A1"
            android:pathData="M8,20 C8,13.373 13.373,8 20,8 L88,8 C94.627,8 100,13.373 100,20 L100,88 C100,94.627 94.627,100 88,100 L20,100 C13.373,100 8,94.627 8,88 Z"/>
        <path android:fillColor="#FFFFFF" android:pathData="M18,24 L18,54 L23,54 L23,41 L32,41 L32,37 L23,37 L23,28 L33,28 L33,24 Z"/>
        <path android:fillColor="#FFFFFF" android:pathData="M43,24 L36,54 L41,54 L43,46 L51,46 L53,54 L58,54 L51,24 Z M44,42 L47,29 L50,42 Z"/>
        <path android:fillColor="#FFFFFF" android:pathData="M62,24 L62,54 L67,54 L67,33 L76,54 L81,54 L81,24 L76,24 L76,45 L67,24 Z"/>
        <path android:fillColor="#FFD600"
            android:pathData="M54,60 L58.7,71.5 L71,72 L61.5,79.8 L64.8,92 L54,85 L43.2,92 L46.5,79.8 L37,72 L49.3,71.5 Z"/>
    </group>
</vector>
```

[Dosya #20/84] Proje Yolu: app/src/main/res/mipmap-anydpi-v26/ic_launcher.xml

BÖLÜM 3 · XML

Kök: /home/user/FanSuper-FANLAB | Boyut: 258 B (258 B) | Satır: 5 satır SHA-256: 1cbf7ca29ace1ad83401c4ca3c9a0297…

```xml
<?xml version="1.0" encoding="utf-8"?>
<adaptive-icon xmlns:android="http://schemas.android.com/apk/res/android">
    <background android:drawable="@color/ic_launcher_background"/>
    <foreground android:drawable="@drawable/ic_fan_super"/>
</adaptive-icon>
```

[Dosya #21/84] Proje Yolu: app/src/main/res/mipmap-anydpi-v26/ic_launcher_round.xml

BÖLÜM 3 · XML

Kök: /home/user/FanSuper-FANLAB | Boyut: 258 B (258 B) | Satır: 5 satır SHA-256: 1cbf7ca29ace1ad83401c4ca3c9a0297…

```xml
<?xml version="1.0" encoding="utf-8"?>
<adaptive-icon xmlns:android="http://schemas.android.com/apk/res/android">
    <background android:drawable="@color/ic_launcher_background"/>
    <foreground android:drawable="@drawable/ic_fan_super"/>
</adaptive-icon>
```

[Dosya #22/84] Proje Yolu: app/src/main/res/values/colors.xml

BÖLÜM 3 · XML

Kök: /home/user/FanSuper-FANLAB | Boyut: 158 B (158 B) | Satır: 5 satır SHA-256: 7126c0de5071679fcc8f22f0921ef265…

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="ic_launcher_background">#1565C0</color>
    <color name="bg">#0F1726</color>
</resources>
```

[Dosya #23/84] Proje Yolu: app/src/main/res/values/strings.xml

BÖLÜM 3 · XML

Kök: /home/user/FanSuper-FANLAB | Boyut: 239 B (239 B) | Satır: 6 satır SHA-256: 6051e823425650eb87fa744a42799c75…

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <string name="app_name">FAN SUPER</string>
    <string name="overlay_channel">FAN SUPER Overlay</string>
    <string name="overlay_running">Overlay çalışıyor</string>
</resources>
```

[Dosya #24/84] Proje Yolu: app/src/main/res/values/themes.xml

BÖLÜM 3 · XML

Kök: /home/user/FanSuper-FANLAB | Boyut: 340 B (340 B) | Satır: 8 satır SHA-256: 6248aec2d408cb5e6da4490489c83770…

```xml
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <style name="Theme.FanSuper" parent="android:Theme.Material.NoActionBar">
        <item name="android:windowBackground">@color/bg</item>
        <item name="android:statusBarColor">#0D1320</item>
        <item name="android:navigationBarColor">#0D1320</item>
    </style>
</resources>
```

[Dosya #25/84] Proje Yolu: app/src/main/res/xml/data_extraction_rules.xml

BÖLÜM 3 · XML

Kök: /home/user/FanSuper-FANLAB | Boyut: 228 B (228 B) | Satır: 5 satır SHA-256: 22c8c70fb7574dd8202042e85a72ba9f…

```xml
<?xml version="1.0" encoding="utf-8"?>
<data-extraction-rules>
    <cloud-backup><include domain="file" path="."/></cloud-backup>
    <device-transfer><include domain="file" path="."/></device-transfer>
</data-extraction-rules>
```

BÖLÜM 4: Kotlin Kaynak Kodları — Uygulama Çekirdeği ve Veri Katmanı

4 Dosya · 738 Satır · 32.4 KB

Application sınıfı (FanApp), senkron/asenkron motor yöneticisi (EngineHost), CSV/kayıt deposu (DataStore) ve kullanıcı ayarları (Settings — v1.4 tam metin eşik saklama düzeltmesi dahil).

[Dosya #26/84] Proje Yolu: app/src/main/java/fan/superai/FanApp.kt

BÖLÜM 4 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 238 B (238 B) | Satır: 12 satır SHA-256: c80e4e810c60252e4aad8081a975a500…

```kotlin
package fan.superai

import android.app.Application
import fan.superai.data.Settings

class FanApp : Application() {
    override fun onCreate() {
        super.onCreate()
        Settings.init(this)
        EngineHost.init(this)
    }
}
```

[Dosya #27/84] Proje Yolu: app/src/main/java/fan/superai/EngineHost.kt

BÖLÜM 4 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 20.823 B (20.3 KB) | Satır: 463 satır SHA-256: a669b3a66887045c29d4aab2ee42dbff…

```kotlin
package fan.superai

import android.content.Context
import android.util.Log
import fan.superai.data.AppSettings
import fan.superai.data.DataStore
import fan.superai.data.Rec
import fan.superai.data.Settings
import fan.superai.engine.Discovery
import fan.superai.engine.DiscoveryReport
import fan.superai.engine.EngineState
import fan.superai.engine.FanEngine
import fan.superai.engine.ResearchLab
import fan.superai.engine.ResearchReport
import fan.superai.engine.MemberStat
import fan.superai.engine.PythonBridge
import fan.superai.v13.CfResult
import fan.superai.v13.Counterfactual
import fan.superai.v13.FanRecord
import fan.superai.v13.FinalPrediction
import fan.superai.v13.PredictionExplanation
import fan.superai.v13.ResearchOutcome
import fan.superai.v13.V13Env
import fan.superai.v13.V13Insights
import fan.superai.v13.V13Runtime
import fan.superai.v13.V13Status
import fan.superai.v13.db.FanDatabase
import fan.superai.v13.db.PredictionRecordEntity
import fan.superai.v13.db.V13Store
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.StateFlow
import java.util.concurrent.Executors
import java.util.concurrent.atomic.AtomicInteger

/** Grafik ekranı verisi (motor iş parçacığında hazırlanır). */
data class ChartData(
    val ref: List<List<Double>>,   // [tek, çift, yan] için hakem serileri
    val kot: List<List<Double>>,
    val py: List<List<Double>>,
    val dist: IntArray,
    val calSingle: List<Triple<Double, Int, Double>>,
    val calPair: List<Triple<Double, Int, Double>>,
    val calSide: List<Triple<Double, Int, Double>>
)

/**
 * Düğmeye basıldığı anda ekranda gösterilecek sayılar (motor hesabı bitene kadar).
 * [base]: bu liste oluşurken motorda bulunan kayıt sayısı.
 * [values]: yalnızca EKRANDA gösterilecek son 6 sayı (görüntü amaçlı, kırpılabilir).
 * [pendingCount]: motora gönderilmiş ama henüz işlenmemiş TOPLAM işlem sayısı —
 * 6'dan fazla hızlı tuşlamada [values] kırpılsa bile bu sayı kırpılmaz, böylece
 * "hepsi işlendi mi" kontrolü (bkz. [EngineHost.syncEcho]) yanlış erken tetiklenmez.
 */
data class Echo(val base: Int, val values: List<Int>, val pendingCount: Int = values.size)

/** Motor durumu + anında geri bildirimi birleştirir (son 6 sayı). */
fun recentWithEcho(st: EngineState?, echo: Echo): List<Int> {
    val base = st?.recent ?: emptyList()
    return if (echo.values.isEmpty()) base else (base + echo.values).takeLast(6)
```

[Dosya #27/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/EngineHost.kt (Satır 60 ve sonrası)

```
60  }
61
62  /**
63   * "Loglar" ekranında gösterilen tek bir işlem kaydı: ne zaman, hangi düğmeye
64   * basıldı, o anki hakem kararı ve o adımda HER ÜYE MODELİN (Kotlin + Python)
65   * ürettiği tahmin/ağırlık. Ekstra hesap gerektirmez — motor bunu her adımda
66   * zaten üretiyor ([FanEngine.state]), burada sadece o anlık görüntü saklanır.
67   */
68  data class ActivityLogEntry(
69      val time: Long,
70      val action: String,             // "EKLE 3", "GERİ AL"
71      val verdictLabel: String?,
72      val confidencePct: Int?,
73      val kotlinStats: List<MemberStat>,
74      val pythonStats: List<MemberStat>
75  )
76
77  /**
78   * Motorun tek sahibi. Tüm hesaplar tek bir arka plan iş parçacığında sırayla yapılır;
79   * arayüz ve overlay yalnızca StateFlow'ları izler.
80   *
81   * DÜĞME GECİKMESİ: Sayı ve geri al düğmeleri bu sınıfa ANINDA işlenir — giriş önce
82   * [echo] ile ekrana yansır, ardından motor iş parçacığında sıraya girer. Motor hazır
83   * değilse (ilk açılış) girişler [waiting] içine alınır ve hazırlık bitince işlenir;
84   * hiçbir düğme basışı sessizce kaybolmaz.
85   */
86  object EngineHost {
87      private const val TAG = "FAN_SUPER"
88      private val exec = Executors.newSingleThreadExecutor { r -> Thread(r, "fan-engine").apply { priority = Thread.NORM_PRIORITY
    ↳ } }
89      private lateinit var app: Context
90      private lateinit var engine: FanEngine
91      private var bridge: PythonBridge? = null
92      private val lock = Any()
93      private var recs = mutableListOf<Rec>()
94      private var applied: AppSettings? = null
95      private var sinceDiscovery = 0
96      private var sinceBackup = 0
97      private val waiting = ArrayDeque<Rec>()
98      private val inFlight = AtomicInteger(0)
99
100     private val _state = MutableStateFlow<EngineState?>(null)
101     val state: StateFlow<EngineState?> = _state
102     private val _busy = MutableStateFlow<String?>("Hazırlanıyor…")
103     val busy: StateFlow<String?> = _busy
104     private val _echo = MutableStateFlow(Echo(0, emptyList()))
105     val echo: StateFlow<Echo> = _echo
106     private val _pending = MutableStateFlow(0)
107     val pending: StateFlow<Int> = _pending
108     private val _discovery = MutableStateFlow<DiscoveryReport?>(null)
109     val discovery: StateFlow<DiscoveryReport?> = _discovery
110     private val _charts = MutableStateFlow<ChartData?>(null)
111     val charts: StateFlow<ChartData?> = _charts
112     private val _pyError = MutableStateFlow<String?>(null)
113     val pyError: StateFlow<String?> = _pyError
114     private const val LOG_CAP = 500
115     private val _activityLog = MutableStateFlow<List<ActivityLogEntry>>(emptyList())
116     val activityLog: StateFlow<List<ActivityLogEntry>> = _activityLog
117     private val _research = MutableStateFlow<ResearchReport?>(null)
118     val research: StateFlow<ResearchReport?> = _research
119
120     // ---- v1.3
121     private val rexec = Executors.newSingleThreadExecutor { r -> Thread(r, "fan-research").apply { priority = Thread.MIN_PRIORIT
    ↳ Y } }
122     private var v13: V13Runtime? = null
123     private var v13Plan: V13Runtime.Plan? = null
124     private val emptyFinal = MutableStateFlow<FinalPrediction?>(null)
125     private val emptyInsights = MutableStateFlow<V13Insights?>(null)
126     private val emptyStatus = MutableStateFlow(V13Status())
127     private val emptyOutcome = MutableStateFlow<ResearchOutcome?>(null)
128     private val emptyBusy = MutableStateFlow<String?>(null)
129
130     /** Tek nihai tahmin (rakam + yan) — overlay, ana ekran ve FAN LAB buradan beslenir. */
131     val finalPrediction: StateFlow<FinalPrediction?> get() = v13?.final ?: emptyFinal
132     val v13Insights: StateFlow<V13Insights?> get() = v13?.insights ?: emptyInsights
133     val v13Status: StateFlow<V13Status> get() = v13?.status ?: emptyStatus
134     val v13Research: StateFlow<ResearchOutcome?> get() = v13?.researchResult ?: emptyOutcome
135     val v13ResearchBusy: StateFlow<String?> get() = v13?.researchBusy ?: emptyBusy
136
137     private fun fanRecords(): List<FanRecord> = synchronized(lock) {
138         recs.mapIndexed { i, r -> FanRecord.of((i + 1).toLong(), r.time, r.value) }
139     }
140
141     private fun v13Env(): V13Env = V13Env(engine, bridge, engine.cfg) { fanRecords() }
142
```

[Dosya #27/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/EngineHost.kt (Satır 143 ve sonrası)

```
143     /** Python replay'inden ÖNCE: kayıtlı durumu incele; üye dağılımı gerekiyorsa köprüye bildir. */
144     private fun v13Prepare(force: Boolean) {
145         val rt = v13 ?: return
146         try {
147             val plan = rt.prepare(fanRecords(), force)
148             v13Plan = plan
149             bridge?.captureMembers = plan.needsPythonMembers
150         } catch (e: Throwable) { Log.e(TAG, "v13 prepare", e); v13Plan = null }
151     }
152
153     /** Python/Kotlin kurulumu BİTTİKTEN sonra: replay/yakalama + yeni tahmin + kalıcılık. */
154     private fun v13Finish(clearHistory: Boolean = false) {
155         val rt = v13 ?: return
156         val plan = v13Plan ?: return
157         v13Plan = null
158         try {
159             _busy.value = "🧠 v1.4 meta-ensemble hazırlanıyor…"
160             rt.finish(plan, v13Env(), clearHistory)
161         } catch (e: Throwable) { Log.e(TAG, "v13 finish", e) }
162         bridge?.captureMembers = false
163     }
164
165     fun predictionPage(offset: Int, limit: Int): List<PredictionRecordEntity> =
166         try { v13?.store0?.page(offset, limit) ?: emptyList() } catch (e: Throwable) { emptyList() }
167
168     fun predictionTotal(): Int = try { v13?.store0?.predictionTotal() ?: 0 } catch (e: Throwable) { 0 }
169
170     fun explanationFor(seq: Int): PredictionExplanation? = try { v13?.store0?.explanation(seq) } catch (e: Throwable) { null }
171
172     /** Karşı-olgusal analiz: kilitli tahmin girdileri üzerinde saf simülasyon (canlı durum değişmez). */
173     fun liveCounterfactual(): List<CfResult> {
174         val rt = v13 ?: return emptyList()
175         val ctx = rt.liveContext() ?: return emptyList()
176         return Counterfactual.runAll(rt.alphabet, ctx)
177     }
178
179     /** RESEARCH/REPLAY modu: ayrı iş parçacığı + sandbox; canlı durum ve düğmeler etkilenmez. */
180     fun runResearchReplay() {
181         val rt = v13 ?: return
182         if (rt.researchBusy.value != null) return
183         rexec.execute {
184             try { rt.research(fanRecords(), engine.cfg, bridge) } catch (e: Throwable) { Log.e(TAG, "research", e) }
185         }
186     }
187
188     /** Kullanıcı elle "Full Replay": tüm geçmiş baştan oynatılır, canlı tahmin geçmişi korunur. */
189     fun fullReplay() = exec.execute {
190         if (!::engine.isInitialized) return@execute
191         bridge?.deleteState()
192         rebuildFromRecs(clearHistory = false)
193     }
194
195     /** [action] anındaki durumu (hakem kararı + her üyenin tahmini) log listesine ekler. */
196     private fun logActivity(action: String) {
197         if (!::engine.isInitialized) return
198         try {
199             val st = engine.state()
200             val entry = ActivityLogEntry(
201                 System.currentTimeMillis(), action, st.verdict?.label,
202                 st.verdict?.confidence?.let { (it * 100).toInt() },
203                 st.kotlinStats, st.pythonStats
204             )
205             _activityLog.value = (_activityLog.value + entry).takeLast(LOG_CAP)
206         } catch (e: Throwable) { Log.e(TAG, "logActivity", e) }
207     }
208
209     fun clearActivityLog() { _activityLog.value = emptyList() }
210
211     fun init(ctx: Context) {
212         app = ctx.applicationContext
213         try { v13 = V13Runtime(V13Store(FanDatabase.get(app))) } catch (e: Throwable) { Log.e(TAG, "v13 db", e) }
214         fan.superai.v13.FanLog.sink = { name, msg ->
215             if (name == fan.superai.v13.FanLog.ERROR) Log.w("FAN_V13", "$name $msg") else Log.i("FAN_V13", "$name $msg")
216         }
217         exec.execute {
218             try {
219                 val s = Settings.value
220                 applied = s
221                 val loaded = loadRecords()
222                 synchronized(lock) { recs = loaded }
223                 engine = FanEngine(s.engineConfig(), null)
224                 loaded.forEach { engine.values.add(it.value - 1); engine.times.add(it.time) }
225                 _busy.value = "🏛 Kotlin meclisi öğreniyor…"
226                 engine.replayPython(); engine.rebuildKotlin()
227                 publish()
```

[Dosya #27/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/EngineHost.kt (Satır 228 ve sonrası)

```
228                 runDiscovery()
229                 v13Prepare(false)
230                 if (s.pythonEnabled) startPython(s)
231                 v13Finish()
232                 flushWaiting()          // hazırlık sırasında basılan düğmeler şimdi işlenir
233             } catch (e: Throwable) {
234                 Log.e(TAG, "init", e); _pyError.value = e.message
235             } finally { _busy.value = null; publish(); syncEcho() }
236         }
237     }
238
239     /**
240      * Başlangıç kayıtları: Room (v1.3) ana kaynaktır; CSV yalnızca ilk kurulum / içe aktarma / yedek içindir.
241      * v1.2'den yükseltmede DB boştur → CSV bir kez DB'ye aktarılır. CSV DB'den uzunsa (ve DB onun öneki ise) kuyruk alınır.
242      */
243     private fun loadRecords(): MutableList<Rec> {
244         val csv = DataStore.load(app)
245         val store = v13?.store0 ?: return csv
246         return try {
247             val db = store.records()
248             if (db.isEmpty()) return csv
249             val dbRecs = db.map { Rec(it.number, it.timestamp) }.toMutableList()
250             val csvExtends = csv.size > dbRecs.size && dbRecs.indices.all { csv[it].value == dbRecs[it].value && csv[it].time ==
↳ dbRecs[it].time }
251             if (csvExtends) csv else {
252                 if (dbRecs.size != csv.size) DataStore.save(app, dbRecs)
253                 dbRecs
254             }
255         } catch (e: Throwable) { Log.e(TAG, "loadRecords", e); csv }
256     }
257
258     private fun startPython(s: AppSettings) {
259         _busy.value = "🐍 Python meclisi öğreniyor… (ilk açılışta biraz sürer)"
260         try {
261             val b = PythonBridge(app, s.pythonJson())
262             bridge = b
263             b.captureMembers = v13Plan?.needsPythonMembers == true
264             engine.setPython(b)
265             engine.replayPython()
266             _busy.value = "⚖ Hakem hazırlanıyor…"
267             engine.rebuildKotlin()
268             _pyError.value = null
269         } catch (e: Throwable) {
270             Log.e(TAG, "python", e)
271             _pyError.value = "Python başlatılamadı: ${e.message}"
272             bridge = null; engine.setPython(null)
273             engine.replayPython(); engine.rebuildKotlin()
274         }
275     }
276
277     /** Motor hazır olmadan gelen girişleri sırayla işler. */
278     private fun flushWaiting() {
279         while (waiting.isNotEmpty()) {
280             val r = waiting.removeFirst()
281             try { addNow(r) } catch (e: Throwable) { Log.e(TAG, "flush", e) }
282         }
283     }
284
285     private fun publish() {
286         if (!::engine.isInitialized) return
287         try {
288             _state.value = engine.state()
289             val sel = listOf<(fan.superai.engine.StepLog) -> Boolean>({ it.top1 }, { it.top2 }, { it.sideAny })
290             val kSel = listOf<(fan.superai.engine.StepLog) -> Boolean>({ it.kTop1 }, { it.kTop2 }, { it.sideAny })
291             val pSel = listOf<(fan.superai.engine.StepLog) -> Boolean>({ it.pTop1 }, { it.pTop2 }, { it.sideAny })
292             val dist = IntArray(4); engine.values.forEach { dist[it]++ }
293             _charts.value = ChartData(
294                 sel.map { engine.rollingSeries(it) },
295                 kSel.map { engine.rollingSeries(it) },
296                 pSel.mapIndexed { i, f -> if (i == 2) emptyList() else engine.rollingSeries(f) { it.pAvail } },
297                 dist, engine.referee.calSingle.table(), engine.referee.calPair.table(), engine.referee.calSide.table()
298             )
299             _research.value = ResearchLab.analyze(engine.logs)
300         } catch (e: Throwable) { Log.e(TAG, "publish", e) }
301     }
302
303     /** Echo listesini motor durumuna göre temizler (hepsi işlendiyse). */
304     private fun syncEcho() {
305         val e = _echo.value
306         if (e.pendingCount == 0) return
307         val c = _state.value?.count ?: 0
308         // pendingCount kullanılır, e.values.size DEĞİL: values sadece son 6'yı tutar
309         // (ekran için), 6'dan fazla bekleyen işlem varsa values kırpılmış olabilir.
310         if (inFlight.get() <= 0 && c >= e.base + e.pendingCount) _echo.value = Echo(c, emptyList(), 0)
311     }
```

[Dosya #27/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/EngineHost.kt (Satır 312 ve sonrası)

```
312
313     private fun runDiscovery() {
314         _discovery.value = Discovery.run(engine.values.toIntArray(), engine.times.toLongArray())
315         sinceDiscovery = 0
316     }
317
318     fun rerunDiscovery() = exec.execute { runDiscovery() }
319     fun rerunResearch() = exec.execute { if (::engine.isInitialized) _research.value = ResearchLab.analyze(engine.logs) }
320
321     /**
322      * Yeni sayı (1..4). Çağrı ANINDA döner: sayı önce ekranda belirir, motor arkada işler.
323      */
324     fun add(value: Int) {
325         if (value !in 1..4) return
326         val base = _state.value?.count ?: 0
327         val e = _echo.value
328         _echo.value = Echo(if (e.pendingCount == 0) base else e.base, (e.values + value).takeLast(6), e.pendingCount + 1)
329         _pending.value = inFlight.incrementAndGet()
330         exec.execute {
331             val t0 = System.nanoTime()
332             try {
333                 val r = Rec(value, System.currentTimeMillis() / 1000)
334                 if (!::engine.isInitialized) { waiting.addLast(r); return@execute }
335                 addNow(r)
336                 Log.i(TAG, "add($value) ${(System.nanoTime() - t0) / 1_000_000L} ms")
337             } catch (ex: Throwable) {
338                 Log.e(TAG, "add", ex)
339             } finally {
340                 _pending.value = inFlight.decrementAndGet()
341                 syncEcho()
342             }
343         }
344     }
345
346     private fun addNow(r: Rec) {
347         synchronized(lock) {
348             recs.add(r)
349             DataStore.append(app, recs.size, r)
350         }
351         engine.add(r.value - 1, r.time)
352         v13?.onNewRecord(FanRecord.of(synchronized(lock) { recs.size }.toLong(), r.time, r.value), v13Env())
353         publish()
354         logActivity("EKLE ${r.value}")
355         val s = Settings.value
356         if (s.discoveryEvery > 0 && ++sinceDiscovery >= s.discoveryEvery) runDiscovery()
357         if (s.backupDownload && ++sinceBackup >= 10) { sinceBackup = 0; DataStore.backupToDownload(app, recs) }
358     }
359
360     /**
361      * Son sayıyı geri alır. Geri alma artık adım adım tutulan kayıtlarla yapılır:
362      * iki meclis de tam olarak bir adım geriye sarılır, tüm geçmiş baştan öğrenilmez.
363      */
364     fun undo() {
365         val e = _echo.value
366         if (e.pendingCount > 0) {
367             val newPending = e.pendingCount - 1
368             _echo.value = if (newPending == 0) Echo(e.base, emptyList(), 0) else Echo(e.base, e.values.dropLast(1), newPending)
369         }
370         _pending.value = inFlight.incrementAndGet()
371         exec.execute {
372             try {
373                 if (!::engine.isInitialized) {
374                     // Motor daha hazır değil: bekleyen girişlerden sonuncusunu geri al.
375                     if (waiting.isNotEmpty()) waiting.removeLast()
376                     return@execute
377                 }
378                 if (synchronized(lock) { recs.isEmpty() }) return@execute
379                 _busy.value = "Geri alınıyor…"
380                 synchronized(lock) { recs.removeAt(recs.size - 1) }
381                 if (!DataStore.removeLast(app)) synchronized(lock) { DataStore.save(app, recs) }
382                 engine.undo()
383                 v13?.onUndo(synchronized(lock) { recs.size }, v13Env())
384                 if (engine.lastUndoFast) Log.i(TAG, "undo ${engine.lastUndoMs} ms (anında)")
385                 else Log.w(TAG, "undo ${engine.lastUndoMs} ms (tam yeniden kurma gerekti)")
386                 logActivity("GERİ AL (${if (engine.lastUndoFast) "anında" else "tam yeniden kurma"}, ${engine.lastUndoMs} ms)")
387             } catch (ex: Throwable) {
388                 Log.e(TAG, "undo", ex)
389             } finally {
390                 _busy.value = null
391                 publish()
392                 _pending.value = inFlight.decrementAndGet()
393                 syncEcho()
394             }
395         }
396     }
```

[Dosya #27/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/EngineHost.kt (Satır 397 ve sonrası)

```
397
398     /** Ayarlar değişince motoru gerekli ölçüde yeniden kurar. */
399     fun applySettings(s: AppSettings) = exec.execute {
400         if (!::engine.isInitialized) return@execute
401         val old = applied ?: s
402         applied = s
403         val engineChanged = old.engineConfig() != s.engineConfig()
404         val pyChanged = old.pythonEnabled != s.pythonEnabled || old.pythonJson() != s.pythonJson()
405         if (!engineChanged && !pyChanged) return@execute
406         engine.cfg = s.engineConfig()
407         try {
408             v13Prepare(true)
409             if (pyChanged) {
410                 if (s.pythonEnabled) startPython(s) else {
411                     bridge = null; engine.setPython(null)
412                     _busy.value = "Yeniden kuruluyor…"; engine.replayPython(); engine.rebuildKotlin()
413                 }
414             } else {
415                 _busy.value = "Yeniden kuruluyor…"; engine.rebuildKotlin()
416             }
417             v13Finish()
418         } finally { _busy.value = null; publish(); syncEcho() }
419     }
420
421     /** İçe aktarılan veriyle değiştir. */
422     fun replaceData(newRecs: List<Rec>) = exec.execute {
423         synchronized(lock) { recs = newRecs.toMutableList(); DataStore.save(app, recs) }
424         _echo.value = Echo(0, emptyList())
425         waiting.clear()
426         if (!::engine.isInitialized) return@execute
427         rebuildFromRecs(clearHistory = true)
428     }
429
430     fun resetLearning() = exec.execute {
431         if (!::engine.isInitialized) return@execute
432         bridge?.deleteState()
433         rebuildFromRecs(clearHistory = true)
434     }
435
436     fun deleteAll() = exec.execute {
437         synchronized(lock) { recs.clear(); DataStore.save(app, recs) }
438         _echo.value = Echo(0, emptyList())
439         waiting.clear()
440         clearActivityLog()
441         if (!::engine.isInitialized) return@execute
442         bridge?.deleteState()
443         rebuildFromRecs(clearHistory = true)
444     }
445
446     private fun rebuildFromRecs(clearHistory: Boolean) {
447         try {
448             v13Prepare(true)
449             engine.values.clear(); engine.times.clear()
450             synchronized(lock) { recs.forEach { engine.values.add(it.value - 1); engine.times.add(it.time) } }
451             _busy.value = if (bridge != null) "🐍 Python yeniden öğreniyor…" else "Yeniden kuruluyor…"
452             engine.replayPython(); engine.rebuildKotlin()
453             runDiscovery()
454             v13Finish(clearHistory)
455         } finally { _busy.value = null; publish(); syncEcho() }
456     }
457
458     fun records(): List<Rec> = synchronized(lock) { recs.toList() }
459
460     fun exportCsv(): String = DataStore.toCsv(records())
461
462     fun persist() = exec.execute { bridge?.save() }
463 }
```

[Dosya #28/84] Proje Yolu: app/src/main/java/fan/superai/data/DataStore.kt BÖLÜM 4 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 6.847 B (6.7 KB) | Satır: 151 satır SHA-256: ccc47d00694c18c5bfb1f5c89188e27e…

```
1  package fan.superai.data
2
3  import android.content.ContentValues
4  import android.content.Context
5  import android.net.Uri
6  import android.os.Build
7  import android.os.Environment
8  import android.provider.MediaStore
9  import java.io.File
10 import java.io.RandomAccessFile
11 import java.text.SimpleDateFormat
12 import java.util.Date
```

[Dosya #28/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/data/DataStore.kt (Satır 13 ve sonrası)

```
13 import java.util.Locale
14
15 /** Tek kayıt: değer 1..4, zaman epoch saniye. */
16 data class Rec(val value: Int, val time: Long)
17
18 /**
19  * Veri deposu. Ana dosya: filesDir/fan_super_data.csv  (id|tarih|sayi)
20  * İlk açılışta assets/fan_data_live.csv içindeki hazır veri yüklenir.
21  */
22 object DataStore {
23     private const val FILE = "fan_super_data.csv"
24     private const val SEED = "fan_data_live.csv"
25     private const val NL: Byte = 10      // '\n'
26     private const val CR: Byte = 13      // '\r'
27     private val fmt get() = SimpleDateFormat("yyyy-MM-dd HH:mm:ss", Locale.US)
28
29     private fun file(ctx: Context) = File(ctx.filesDir, FILE)
30
31     fun load(ctx: Context): MutableList<Rec> {
32         val f = file(ctx)
33         if (!f.exists()) {
34             val seed = try { ctx.assets.open(SEED).bufferedReader(Charsets.UTF_8).readText() } catch (e: Exception) { "" }
35             val recs = parse(seed)
36             save(ctx, recs)
37             return recs.toMutableList()
38         }
39         return parse(f.readText(Charsets.UTF_8)).toMutableList()
40     }
41
42     fun save(ctx: Context, recs: List<Rec>) {
43         val sb = StringBuilder("id|tarih|sayi\n")
44         val df = fmt
45         recs.forEachIndexed { i, r -> sb.append(i + 1).append('|').append(df.format(Date(r.time * 1000))).append('|').append(r.v
↳ alue).append('\n') }
46         val tmp = File(ctx.filesDir, "$FILE.tmp")
47         tmp.writeText(sb.toString(), Charsets.UTF_8)
48         tmp.renameTo(file(ctx))
49     }
50
51     fun append(ctx: Context, index: Int, r: Rec) {
52         val f = file(ctx)
53         if (!f.exists()) f.writeText("id|tarih|sayi\n")
54         f.appendText("$index|${fmt.format(Date(r.time * 1000))}|${r.value}\n", Charsets.UTF_8)
55     }
56
57     /**
58      * Son satırı (son kaydı) dosyadan düşürür: tüm CSV'yi yeniden yazmak yerine dosya
59      * sonundan kısaltılır. "Geri al" düğmesinin hızlı olmasının bir parçası.
60      * Silinecek kayıt yoksa ya da dosya beklenmedik biçimdeyse false döner.
61      */
62     fun removeLast(ctx: Context): Boolean {
63         val f = file(ctx)
64         if (!f.exists() || f.length() == 0L) return false
65         return try {
66             val b = f.readBytes()
67             var end = b.size
68             while (end > 0 && (b[end - 1] == NL || b[end - 1] == CR)) end--      // satır sonu boşlukları
69             while (end > 0 && b[end - 1] != NL) end--                            // son satırın başı
70             if (end == 0) return false                                           // yalnızca başlık var
71             RandomAccessFile(f, "rw").use { it.setLength(end.toLong()) }
72             true
73         } catch (e: Exception) {
74             false
75         }
76     }
77
78     /**
79      * Esnek ayrıştırıcı: eski FAN CSV'si (| ayraçlı, başlıkta "sayi" ve "tarih"),
80      * virgül/noktalı virgül ayraçlı dosyalar ya da satır başına tek sayı.
81      */
82     fun parse(text: String): List<Rec> {
83         val lines = text.lineSequence().map { it.trim().removePrefix("\uFEFF") }.filter { it.isNotEmpty() }.toList()
84         if (lines.isEmpty()) return emptyList()
85         val delim = listOf('|', ';', ',', '\t').maxBy { d -> lines.first().count { it == d } }
86         val head = lines.first().split(delim).map { it.trim().lowercase(Locale.ROOT) }
87         var vi = head.indexOfFirst { it == "sayi" || it == "sayı" || it == "value" || it == "deger" || it == "değer" }
88         var ti = head.indexOfFirst { it == "tarih" || it == "time" || it == "zaman" || it == "date" }
89         var body = lines
90         if (vi >= 0) body = lines.drop(1) else {
91             vi = if (head.size >= 3) 2 else 0
92             if (head.size < 3) ti = -1 else if (ti < 0) ti = 1
93         }
94         val df = fmt
95         val now = System.currentTimeMillis() / 1000
96         val out = ArrayList<Rec>()
```

[Dosya #28/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/data/DataStore.kt (Satır 97 ve sonrası)

```
97          body.forEachIndexed { i, l ->
98              val c = l.split(delim)
99              val v = c.getOrNull(vi)?.trim()?.toIntOrNull() ?: return@forEachIndexed
100             if (v !in 1..4) return@forEachIndexed
101             val t = if (ti >= 0) c.getOrNull(ti)?.trim()?.let { s ->
102                 try { df.parse(s)?.time?.div(1000) } catch (e: Exception) { s.toLongOrNull() }
103             } else null
104             out.add(Rec(v, t ?: (now - (body.size - i))))
105         }
106         return out
107     }
108
109     fun toCsv(recs: List<Rec>): String {
110         val sb = StringBuilder("id|tarih|sayi\n"); val df = fmt
111         recs.forEachIndexed { i, r -> sb.append(i + 1).append('|').append(df.format(Date(r.time * 1000))).append('|').append(r.v
↳ alue).append('\n') }
112         return sb.toString()
113     }
114
115     fun exportTo(ctx: Context, uri: Uri, recs: List<Rec>) {
116         ctx.contentResolver.openOutputStream(uri, "wt")?.use { it.write(toCsv(recs).toByteArray(Charsets.UTF_8)) }
117     }
118
119     fun readUri(ctx: Context, uri: Uri): String =
120         ctx.contentResolver.openInputStream(uri)?.use { it.readBytes().toString(Charsets.UTF_8) } ?: ""
121
122     /** Download/FAN/fan_super_data.csv yedeği (Android 10+ MediaStore; daha eskide uygulama klasörü). */
123     fun backupToDownload(ctx: Context, recs: List<Rec>) {
124         val data = toCsv(recs).toByteArray(Charsets.UTF_8)
125         try {
126             if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.Q) {
127                 val resolver = ctx.contentResolver
128                 val coll = MediaStore.Downloads.EXTERNAL_CONTENT_URI
129                 val rel = Environment.DIRECTORY_DOWNLOADS + "/FAN/"
130                 var uri: Uri? = null
131                 resolver.query(coll, arrayOf(MediaStore.MediaColumns._ID),
132                     "${MediaStore.MediaColumns.RELATIVE_PATH}=? AND ${MediaStore.MediaColumns.DISPLAY_NAME}=?",
133                     arrayOf(rel, "fan_super_data.csv"), null)?.use { c ->
134                     if (c.moveToFirst()) uri = Uri.withAppendedPath(coll, c.getLong(0).toString())
135                 }
136                 if (uri == null) {
137                     val cv = ContentValues().apply {
138                         put(MediaStore.MediaColumns.DISPLAY_NAME, "fan_super_data.csv")
139                         put(MediaStore.MediaColumns.MIME_TYPE, "text/csv")
140                         put(MediaStore.MediaColumns.RELATIVE_PATH, rel)
141                     }
142                     uri = resolver.insert(coll, cv)
143                 }
144                 uri?.let { u -> resolver.openOutputStream(u, "wt")?.use { it.write(data) } }
145             } else {
146                 val dir = File(ctx.getExternalFilesDir(null), "FAN").apply { mkdirs() }
147                 File(dir, "fan_super_data.csv").writeBytes(data)
148             }
149         } catch (_: Exception) { }
150     }
151 }
```

[Dosya #29/84] Proje Yolu: app/src/main/java/fan/superai/data/Settings.kt BÖLÜM 4 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 5.257 B (5.1 KB) | Satır: 112 satır SHA-256: 0d9fed796528de0d682e071af0a9c4cc…

```
1  package fan.superai.data
2
3  import android.content.Context
4  import android.content.SharedPreferences
5  import fan.superai.engine.EngineConfig
6  import kotlinx.coroutines.flow.MutableStateFlow
7  import kotlinx.coroutines.flow.StateFlow
8  import org.json.JSONArray
9  import org.json.JSONObject
10
11 data class AppSettings(
12     // Tahmin
13     val pairMode: Int = 0,              // 0 otomatik, 1 her zaman çift, 2 her zaman tek
14     val silentFirst: Int = 50,
15     val calibration: Boolean = true,
16     // Meclis & yarış
17     val window: Int = 100,
18     val benchThreshold: Double = 0.20,
19     val fixedShare: Boolean = true,
20     val stacking: Boolean = true,
21     val forgetting: Int = 1,
22     val disabled: Set<String> = emptySet(),
23     // Python
```

[Dosya #29/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/data/Settings.kt (Satır 24 ve sonrası)

```
24      val pythonEnabled: Boolean = true,
25      val dlEnabled: Boolean = true,
26      val battery: Boolean = false,
27      // Overlay
28      val overlayHorizontal: Boolean = false,
29      val overlayDetail: Boolean = true, // Eski tercih ile uyumluluk; detaylar artık uygulamada.
30      val overlayAlpha: Float = 0.8f,
31      val overlayTextScale: Float = 1.0f,
32      val showRecent: Boolean = true,
33      val vibrate: Boolean = false,
34      // Keşif
35      val discoveryEvery: Int = 50,
36      // Veri
37      val backupDownload: Boolean = true
38  ) {
39      fun engineConfig() = EngineConfig(
40          window = window, benchThreshold = benchThreshold, fixedShare = fixedShare, stacking = stacking,
41          forgetting = forgetting, pairMode = pairMode, calibration = calibration, silentFirst = silentFirst,
42          disabled = disabled
43      )
44
45      fun pythonJson(): String = JSONObject().apply {
46          put("window", window); put("bench", benchThreshold)
47          put("alpha", engineConfig().alpha); put("dl", dlEnabled); put("battery", battery)
48          put("disabled", JSONArray(disabled.sorted()))
49      }.toString()
50  }
51
52  object Settings {
53      private lateinit var prefs: SharedPreferences
54      private val _flow = MutableStateFlow(AppSettings())
55      val flow: StateFlow<AppSettings> = _flow
56      val value get() = _flow.value
57
58      fun init(ctx: Context) {
59          prefs = ctx.getSharedPreferences("fan_super_settings", Context.MODE_PRIVATE)
60          _flow.value = load()
61      }
62
63      /**
64       * Yedeğe düşme eşiği (yüzdelik ayar) TAM saklanır. Float olarak yazılırsa 0.18 değeri
65       * 0.18000000715255737'ye döner; Ayarlar ekranı bu ham değeri gösteriyordu. v1.4'ten
66       * itibaren metin olarak yazılır; eski kurulumlardaki Float değer de okunur.
67       */
68      private fun loadBenchThreshold(p: SharedPreferences, def: Double): Double {
69          try { p.getString("bench", null)?.toDoubleOrNull()?.let { return it } } catch (_: ClassCastException) {}
70          return try { p.getFloat("bench", def.toFloat()).toDouble() } catch (_: ClassCastException) { def }
71      }
72
73      private fun load(): AppSettings {
74          val d = AppSettings()
75          return AppSettings(
76              pairMode = prefs.getInt("pairMode", d.pairMode),
77              silentFirst = prefs.getInt("silentFirst", d.silentFirst),
78              calibration = prefs.getBoolean("calibration", d.calibration),
79              window = prefs.getInt("window", d.window),
80              benchThreshold = loadBenchThreshold(prefs, d.benchThreshold),
81              fixedShare = prefs.getBoolean("fixedShare", d.fixedShare),
82              stacking = prefs.getBoolean("stacking", d.stacking),
83              forgetting = prefs.getInt("forgetting", d.forgetting),
84              disabled = prefs.getStringSet("disabled", emptySet())?.toSet() ?: emptySet(),
85              pythonEnabled = prefs.getBoolean("python", d.pythonEnabled),
86              dlEnabled = prefs.getBoolean("dl", d.dlEnabled),
87              battery = prefs.getBoolean("battery", d.battery),
88              overlayHorizontal = prefs.getBoolean("ovH", d.overlayHorizontal),
89              overlayDetail = prefs.getBoolean("ovDetail", d.overlayDetail),
90              overlayAlpha = prefs.getFloat("ovAlpha", d.overlayAlpha),
91              overlayTextScale = prefs.getFloat("ovText", d.overlayTextScale),
92              showRecent = prefs.getBoolean("ovRecent", d.showRecent),
93              vibrate = prefs.getBoolean("vibrate", d.vibrate),
94              discoveryEvery = prefs.getInt("discEvery", d.discoveryEvery),
95              backupDownload = prefs.getBoolean("backup", d.backupDownload)
96          )
97      }
98
99      fun update(f: (AppSettings) -> AppSettings) {
100         val s = f(_flow.value)
101         prefs.edit().apply {
102             putInt("pairMode", s.pairMode); putInt("silentFirst", s.silentFirst); putBoolean("calibration", s.calibration)
103             putInt("window", s.window); putString("bench", s.benchThreshold.toString()); putBoolean("fixedShare", s.fixedShare)
104             putBoolean("stacking", s.stacking); putInt("forgetting", s.forgetting); putStringSet("disabled", s.disabled)
105             putBoolean("python", s.pythonEnabled); putBoolean("dl", s.dlEnabled); putBoolean("battery", s.battery)
106             putBoolean("ovH", s.overlayHorizontal); putBoolean("ovDetail", s.overlayDetail); putFloat("ovAlpha", s.overlayAlpha)
107             putFloat("ovText", s.overlayTextScale); putBoolean("ovRecent", s.showRecent); putBoolean("vibrate", s.vibrate)
108             putInt("discEvery", s.discoveryEvery); putBoolean("backup", s.backupDownload)
```

[Dosya #29/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/data/Settings.kt (Satır 109 ve sonrası)

```
109         }.apply()
110         _flow.value = s
111     }
112 }
```

BÖLÜM 5: Kotlin Kaynak Kodları — Tahmin Motoru, Hakem ve Kotlin Meclisi

10 Dosya · 2.025 Satır · 86.3 KB

Temel veri yapıları (Core), Fixed-Share Hedge meclis yöneticisi (Council), Baş Hakem (Referee), FanEngine, Chaquopy Python köprüsü (PythonBridge), Keşif/Analitik ve 8 Kotlin Meclisi üyesi (Kalıp Arama 2.0, GRU, ESN, CTW, PPM-C, Frekans/Hazard, Seri/Dalga, Rejim).

[Dosya #30/84] Proje Yolu: app/src/main/java/fan/superai/engine/Core.kt

BÖLÜM 5 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 4.907 B (4.8 KB) | Satır: 134 satır SHA-256: cbabf2b87082e47431c0edbbbd9bb924…

```kotlin
package fan.superai.engine

import kotlin.math.exp
import kotlin.math.ln
import kotlin.math.max

/**
 * Tüm motor 0..3 aralığında çalışır (kullanıcı sayısı 1..4 → iç değer 0..3).
 * Olasılık dizileri her zaman 4 elemanlıdır.
 */
const val K = 4

/** Bir kaydın bağlam bilgisi (zaman damgası, epoch saniye). */
class History(
    val values: IntArray,
    val times: LongArray,
    val size: Int
) {
    operator fun get(i: Int) = values[i]
    fun last(back: Int = 1) = values[size - back]
}

/**
 * Meclis üyesi. predict() bir sonraki değer için olasılık, update() gerçek sonucu öğrenir.
 *
 * GERİ ALMA (undo): Bir üye [undoable] = true bildiriyorsa, update() çağrısının hemen
 * ardından [undoToken] ile o adımın ÖNCESİNE ait küçük bir kayıt döndürür; [undo] bu
 * kayıtla üyeyi bir adım geriye alır. Kayıtlar yalnızca küçük diziler tutar (ağırlıklar,
 * sayaçlar); büyük tablolar (kalıp indeksi, CTW ağacı, PPM sözlüğü) kopyalanmaz, onların
 * yerine adımda değişen hücreler geri alınır. Böylece "Geri al" tüm geçmişi baştan
 * öğrenmek zorunda kalmaz.
 */
interface Member {
    val id: String
    val name: String
    /** h.size kadar geçmiş biliniyorken bir sonraki değer için dağılım. */
    fun predict(h: History): DoubleArray
    /** h.size-1 elemanlık geçmişten sonra h.last() geldi; öğren. */
    fun update(h: History)
    /** Arayüzde gösterilecek ek bilgi (isteğe bağlı). */
    fun info(): Map<String, String> = emptyMap()
    /** Geri alma destekleniyor mu. false ise motor tam yeniden kurmaya düşer. */
    val undoable: Boolean get() = false
    /** Son update() adımını geri almak için gereken kayıt (adım öncesi durum). */
    fun undoToken(): Any? = null
    /** [undoToken] kaydını uygular. h: geri alınan kayıt DAHİL geçmiş (update'e verilen). */
    fun undo(token: Any?, h: History) {}
}

object P {
    fun uniform() = DoubleArray(K) { 1.0 / K }

    fun normalize(p: DoubleArray, floor: Double = 1e-4): DoubleArray {
        var s = 0.0
        for (i in 0 until K) {
            if (p[i].isNaN() || p[i] < floor) p[i] = floor
            s += p[i]
        }
        for (i in 0 until K) p[i] /= s
        return p
    }

    fun order(p: DoubleArray): IntArray = (0 until K).sortedByDescending { p[it] }.toIntArray()

    fun softmax(z: DoubleArray): DoubleArray {
        val m = z.max()
        val e = DoubleArray(z.size) { exp(z[it] - m) }
        val s = e.sum()
        for (i in e.indices) e[i] /= s
        return e
    }

    fun logLoss(p: DoubleArray, a: Int) = -ln(max(p[a], 1e-9))

    /** Tek/çift (1,3 tek) ve küçük/büyük (3,4 büyük) olasılıkları. */
    fun oddProb(p: DoubleArray) = p[0] + p[2]
```

[Dosya #30/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/Core.kt (Satır 77 ve sonrası)

```
    fun bigProb(p: DoubleArray) = p[2] + p[3]
}

/** Kayan pencere sayacı. */
class Rolling(private val cap: Int) {
    private val buf = BooleanArray(cap)
    private var n = 0
    private var pos = 0
    private var hits = 0
    fun add(b: Boolean) {
        if (n == cap) { if (buf[pos]) hits-- } else n++
        buf[pos] = b; if (b) hits++
        pos = (pos + 1) % cap
    }
    val count get() = n
    fun rate(): Double = if (n == 0) 0.0 else hits.toDouble() / n

    /** Geri alma için tam durum kopyası (cap bayt + 3 sayı). */
    class Snap(val n: Int, val pos: Int, val hits: Int, val buf: BooleanArray)
    fun snapshot() = Snap(n, pos, hits, buf.copyOf())
    fun restore(s: Snap) { n = s.n; pos = s.pos; hits = s.hits; s.buf.copyInto(buf) }
}

/**
 * Fixed-Share Hedge: log-loss ile ağırlık günceller, her adımda ağırlığın bir kısmını
 * herkese dağıtır. Böylece lider değişince (kalıp değişimi) sistem hızla yeni lidere geçer.
 */
class FixedShareHedge(n: Int, var eta: Double = 0.6, var alpha: Double = 0.02) {
    val w = DoubleArray(n) { 1.0 / n }

    fun mix(preds: List<DoubleArray>, active: BooleanArray): DoubleArray {
        val out = DoubleArray(K)
        var tw = 0.0
        for (i in preds.indices) if (active[i]) {
            tw += w[i]
            for (k in 0 until K) out[k] += w[i] * preds[i][k]
        }
        if (tw <= 0) return P.uniform()
        for (k in 0 until K) out[k] /= tw
        return P.normalize(out)
    }

    fun update(preds: List<DoubleArray>, actual: Int) {
        val n = w.size
        for (i in 0 until n) w[i] *= exp(-eta * P.logLoss(preds[i], actual))
        var s = w.sum()
        if (s <= 0 || s.isNaN()) { w.fill(1.0 / n); s = 1.0 }
        for (i in 0 until n) w[i] /= s
        for (i in 0 until n) w[i] = (1 - alpha) * w[i] + alpha / n
    }

    /** Ortalama 1 olacak şekilde ölçeklenmiş ağırlık (arayüz için). */
    fun scaled(i: Int) = w[i] * w.size

    /** Geri alma: ağırlıkların kopyası. */
    fun snapshot(): DoubleArray = w.copyOf()
    fun restore(s: DoubleArray) { if (s.size == w.size) s.copyInto(w) }
}
```

[Dosya #31/84] Proje Yolu: app/src/main/java/fan/superai/engine/Council.kt

BÖLÜM 5 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 6.028 B (5.9 KB) | Satır: 145 satır SHA-256: 30bcc07153dae10f1ade44042eff2546…

```
package fan.superai.engine

/** Motor ayarları (Android'den bağımsız). */
data class EngineConfig(
    val window: Int = 100,            // değerlendirme penceresi
    val benchThreshold: Double = 0.20, // yedeğe düşme eşiği (tek başarı)
    val fixedShare: Boolean = true,    // false → klasik Hedge
    val stacking: Boolean = true,      // hakem birleştirme
    val forgetting: Int = 1,           // 0 yavaş, 1 orta, 2 hızlı
    val pairMode: Int = 0,             // 0 otomatik (konformal), 1 her zaman çift, 2 her zaman tek
    val calibration: Boolean = true,
    val silentFirst: Int = 50,
    val disabled: Set<String> = emptySet()
) {
    val alpha get() = if (!fixedShare) 0.0 else when (forgetting) { 0 -> 0.005; 2 -> 0.05; else -> 0.02 }
}

data class MemberStat(
    val id: String,
    val name: String,
    val top1: Double,
```

[Dosya #31/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/Council.kt (Satır 22 ve sonrası)

```
22      val top2: Double,
23      val weight: Double,
24      val benched: Boolean,
25      val enabled: Boolean,
26      val n: Int
27  )
28
29  /**
30   * Meclis: üyeler kendi içinde yarışır. Ağırlık Fixed-Share Hedge ile, yedeğe düşme ise
31   * kayan penceredeki tek-tahmin başarısıyla belirlenir.
32   */
33  class Council(val name: String, val members: List<Member>, private var cfg: EngineConfig) {
34      private val hedge = FixedShareHedge(members.size, alpha = cfg.alpha)
35      private var r1 = members.map { Rolling(cfg.window) }
36      private var r2 = members.map { Rolling(cfg.window) }
37      private val benched = BooleanArray(members.size)
38      private var lastPreds: List<DoubleArray>? = null
39      private var lastSize = -1
40      val selfTop1 = Rolling(100)
41      val selfTop2 = Rolling(100)
42      var lastMix: DoubleArray = P.uniform(); private set
43
44      fun enabled(i: Int) = members[i].id !in cfg.disabled
45
46      private fun active(): BooleanArray {
47          val a = BooleanArray(members.size) { enabled(it) && !benched[it] }
48          if (a.none { it }) for (i in a.indices) a[i] = enabled(i)
49          return a
50      }
51
52      fun predict(h: History): DoubleArray {
53          val preds = members.map { m ->
54              try { P.normalize(m.predict(h).copyOf()) } catch (e: Exception) { P.uniform() }
55          }
56          lastPreds = preds
57          lastSize = h.size
58          lastMix = hedge.mix(preds, active())
59          return lastMix
60      }
61
62      /**
63       * Geri alma kaydı: meclisin ADIM ÖNCESİ durumu (ağırlıklar, kayan pencereler,
64       * yedek bayrakları) + her üyenin kendi kaydı. Büyük üye tabloları kopyalanmaz.
65       */
66      class Snap(
67          val hedge: DoubleArray,
68          val r1: List<Rolling.Snap>, val r2: List<Rolling.Snap>,
69          val benched: BooleanArray,
70          val self1: Rolling.Snap, val self2: Rolling.Snap,
71          val lastPreds: List<DoubleArray>?, val lastMix: DoubleArray, val lastSize: Int,
72          val members: Array<Any?>
73      )
74
75      private var snap: Snap? = null
76
77      /** Tüm üyeler geri almayı destekliyorsa meclis de destekler. */
78      val undoable: Boolean get() = members.all { it.undoable }
79
80      fun undoToken(): Any? = snap
81
82      /** h, gerçek sonuç dahil edilmiş geçmiş. predict() h.size-1 iken çağrılmış olmalı. */
83      fun update(h: History) {
84          val before = Snap(hedge.snapshot(), r1.map { it.snapshot() }, r2.map { it.snapshot() },
85              benched.copyOf(), selfTop1.snapshot(), selfTop2.snapshot(),
86              lastPreds, lastMix, lastSize, arrayOfNulls(members.size))
87          val a = h.last()
88          val preds = lastPreds
89          if (preds != null && lastSize == h.size - 1) {
90              val o = P.order(lastMix)
91              selfTop1.add(o[0] == a); selfTop2.add(o[0] == a || o[1] == a)
92              for (i in members.indices) {
93                  val oi = P.order(preds[i])
94                  r1[i].add(oi[0] == a); r2[i].add(oi[0] == a || oi[1] == a)
95                  benched[i] = r1[i].count >= cfg.window && r1[i].rate() < cfg.benchThreshold
96              }
97              hedge.update(preds, a)
98          }
99          for (i in members.indices) {
100             val m = members[i]
101             try { m.update(h) } catch (_: Exception) {}
102             before.members[i] = m.undoToken()
103         }
104         snap = before
105     }
106
```

[Dosya #31/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/Council.kt (Satır 107 ve sonrası)

```
107     /**
108      * Meclisi tam olarak bir adım geri alır (h: geri alınan kayıt dahil geçmiş).
109      * Kayıt eksikse hiçbir şey değiştirmeden false döner; motor o zaman tam
110      * yeniden kurmaya düşer.
111      */
112     fun undo(token: Any?, h: History): Boolean {
113         val s = token as? Snap ?: return false
114         if (s.members.size != members.size || s.r1.size != members.size || s.r2.size != members.size) return false
115         for (i in members.indices) if (members[i].undoable && s.members[i] == null) return false
116         hedge.restore(s.hedge)
117         for (i in members.indices) { r1[i].restore(s.r1[i]); r2[i].restore(s.r2[i]) }
118         s.benched.copyInto(benched)
119         selfTop1.restore(s.self1); selfTop2.restore(s.self2)
120         lastPreds = s.lastPreds; lastMix = s.lastMix; lastSize = s.lastSize
121         for (i in members.indices) try { members[i].undo(s.members[i], h) } catch (e: Exception) { return false }
122         return true
123     }
124
125     fun memberPreds(): List<DoubleArray> = lastPreds ?: members.map { P.uniform() }
126
127     /** v1.3: üye bazında son tahmin + meclis karışımındaki GERÇEK ağırlık payı (Σ = 1). */
128     class MemberView(val id: String, val name: String, val pred: DoubleArray, val share: Double)
129
130     fun memberViews(): List<MemberView> {
131         val preds = memberPreds()
132         val act = active()
133         var s = 0.0
134         for (i in members.indices) if (act[i]) s += hedge.w[i]
135         if (s <= 0) s = 1.0
136         return members.indices.map { i ->
137             MemberView(members[i].id, members[i].name, preds[i], if (act[i]) hedge.w[i] / s else 0.0)
138         }
139     }
140
141     fun stats(): List<MemberStat> = members.indices.map { i ->
142         MemberStat(members[i].id, members[i].name, r1[i].rate(), r2[i].rate(),
143             hedge.scaled(i), benched[i], enabled(i), r1[i].count)
144     }.sortedWith(compareBy<MemberStat>({ !it.enabled }, { it.benched }).thenByDescending { it.weight })
145 }
```

[Dosya #32/84] Proje Yolu: app/src/main/java/fan/superai/engine/Referee.kt BÖLÜM 5 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 6.743 B (6.6 KB) | Satır: 143 satır SHA-256: 799726572e523e8e68c2f661a27ca7f8…

```
1  package fan.superai.engine
2
3  import kotlin.math.ln
4  import kotlin.math.max
5
6  /** Güven kalibrasyonu: ham güveni kutulara ayırıp gerçek başarıya çeker. */
7  class Calibrator(private val lo: Double, private val hi: Double, private val bins: Int = 10) {
8      private val hit = DoubleArray(bins); private val n = DoubleArray(bins)
9      private fun b(p: Double) = (((p - lo) / (hi - lo)) * bins).toInt().coerceIn(0, bins - 1)
10     fun add(p: Double, ok: Boolean) { val i = b(p); n[i]++; if (ok) hit[i]++ }
11     fun calibrate(p: Double): Double { val i = b(p); val m = 25.0; return (hit[i] + p * m) / (n[i] + m) }
12     fun table(): List<Triple<Double, Int, Double>> = (0 until bins).filter { n[it] > 0 }.map {
13         Triple(lo + (hi - lo) * it / bins, n[it].toInt(), hit[it] / n[it])
14     }
15
16     /** Geri alma için tam kopya (2 × bins sayı). */
17     class Snap(val hit: DoubleArray, val n: DoubleArray)
18     fun snapshot() = Snap(hit.copyOf(), n.copyOf())
19     fun restore(s: Snap) { s.hit.copyInto(hit); s.n.copyInto(n) }
20 }
21
22 data class Verdict(
23     val probs: DoubleArray,
24     val primary: Int,           // 0..3
25     val secondary: Int?,        // çift tahminde ikinci
26     val confidence: Double,     // kalibre edilmiş
27     val oddProb: Double,
28     val bigProb: Double,
29     val sideConfidence: Double,
30     val weightK: Double,
31     val weightP: Double
32 ) {
33     val sideOdd get() = oddProb >= 0.5
34     val sideBig get() = bigProb >= 0.5
35     val sideLabel get() = (if (sideOdd) "T" else "Ç") + "•" + (if (sideBig) "B" else "K")
36     val label get() = if (secondary == null) "${primary + 1}" else "${primary + 1}/${secondary + 1}"
37 }
38
39 /**
40  * Baş Hakem: iki meclisi Fixed-Share ile tartar, istenirse stacking (öğrenilmiş
```

[Dosya #32/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/Referee.kt (Satır 41 ve sonrası)

```
 * softmax birleştirici) uygular, konformal kuralla tek/çift kararını verir ve güveni kalibre eder.
 */
class Referee(private var cfg: EngineConfig) {
    private val hedge = FixedShareHedge(2, eta = 0.5, alpha = if (cfg.fixedShare) 0.03 else 0.0)
    private val W = Array(K) { k -> DoubleArray(2 * K + 1).also { it[k] = 0.5; it[K + k] = 0.5 } }
    private val lr = 0.02
    private val scoreCap = 300
    private val scores = ArrayDeque<Double>()
    val calSingle = Calibrator(0.25, 0.75)
    val calPair = Calibrator(0.45, 0.95)
    val calSide = Calibrator(0.5, 0.9, 8)
    private var lastFeat: DoubleArray? = null
    private var lastStack: DoubleArray? = null
    private var lastPreds: List<DoubleArray>? = null
    private var lastV: Verdict? = null

    /** Geri alma kaydı: hakemin ADIM ÖNCESİ durumu (tümü küçük diziler). */
    class Tok(
        val hedge: DoubleArray, val w: Array<DoubleArray>,
        val scoresSize: Int, val evicted: Double?,
        val cs: Calibrator.Snap, val cp: Calibrator.Snap, val csd: Calibrator.Snap,
        val lastFeat: DoubleArray?, val lastStack: DoubleArray?,
        val lastPreds: List<DoubleArray>?, val lastV: Verdict?
    )

    private var tok: Tok? = null
    fun undoToken(): Any? = tok

    /** Hakemi bir adım geri alır (kayıt yoksa false). */
    fun undo(token: Any?): Boolean {
        val t = token as? Tok ?: return false
        hedge.restore(t.hedge)
        for (k in 0 until K) t.w[k].copyInto(W[k])
        while (scores.size > t.scoresSize) scores.removeLast()
        t.evicted?.let { scores.addFirst(it) }
        calSingle.restore(t.cs); calPair.restore(t.cp); calSide.restore(t.csd)
        lastFeat = t.lastFeat; lastStack = t.lastStack; lastPreds = t.lastPreds; lastV = t.lastV
        return true
    }

    private fun feats(pk: DoubleArray, pp: DoubleArray) =
        DoubleArray(2 * K + 1) { i -> when { i < K -> ln(max(pk[i], 1e-6)); i < 2 * K -> ln(max(pp[i - K], 1e-6)); else -> 1.0 }
}

    fun decide(pk: DoubleArray, ppIn: DoubleArray?): Verdict {
        val pp = ppIn ?: pk
        val preds = listOf(pk, pp)
        val active = booleanArrayOf(true, ppIn != null)
        val mix = hedge.mix(preds, active)
        var final = mix
        if (cfg.stacking && ppIn != null) {
            val f = feats(pk, pp)
            val st = P.softmax(DoubleArray(K) { k -> var s = 0.0; for (j in f.indices) s += W[k][j] * f[j]; s })
            lastFeat = f; lastStack = st
            final = P.normalize(DoubleArray(K) { 0.5 * st[it] + 0.5 * mix[it] })
        } else { lastFeat = null; lastStack = null }
        lastPreds = preds

        val o = P.order(final)
        // Konformal: uyumsuzluk skoru s = 1 - p[gerçek]; %50 kapsama eşiği
        val single = when (cfg.pairMode) {
            1 -> false; 2 -> true
            else -> {
                if (scores.size < 30) false else {
                    val q = scores.sorted()[(scores.size * 0.5).toInt().coerceAtMost(scores.size - 1)]
                    (0 until K).count { 1 - final[it] <= q } <= 1
                }
            }
        }
        val raw = if (single) final[o[0]] else final[o[0]] + final[o[1]]
        val conf = if (!cfg.calibration) raw else if (single) calSingle.calibrate(raw) else calPair.calibrate(raw)
        val odd = P.oddProb(final); val big = P.bigProb(final)
        val sideRaw = (max(odd, 1 - odd) + max(big, 1 - big)) / 2
        val sideConf = if (cfg.calibration) calSide.calibrate(sideRaw) else sideRaw
        val tw = hedge.w[0] + if (ppIn != null) hedge.w[1] else 0.0
        val v = Verdict(final, o[0], if (single) null else o[1], conf, odd, big, sideConf,
            hedge.w[0] / tw, if (ppIn != null) hedge.w[1] / tw else 0.0)
        lastV = v
        return v
    }

    fun update(actual: Int) {
        // Adım öncesi durum: geri alma için (aşağıdaki erken dönüşte de geçerli).
        tok = Tok(hedge.snapshot(), Array(K) { k -> W[k].copyOf() }, scores.size,
            if (scores.size >= scoreCap) scores.first() else null,
```

[Dosya #32/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/Referee.kt (Satır 125 ve sonrası)

```
            calSingle.snapshot(), calPair.snapshot(), calSide.snapshot(),
            lastFeat, lastStack, lastPreds, lastV)
        val v = lastV ?: return
        lastPreds?.let { hedge.update(it, actual) }
        val f = lastFeat; val st = lastStack
        if (f != null && st != null) for (k in 0 until K) {
            val g = st[k] - if (k == actual) 1.0 else 0.0
            for (j in f.indices) W[k][j] -= lr * g * f[j]
        }
        scores.addLast(1 - v.probs[actual]); if (scores.size > scoreCap) scores.removeFirst()
        val o = P.order(v.probs)
        calSingle.add(v.probs[o[0]], o[0] == actual)
        calPair.add(v.probs[o[0]] + v.probs[o[1]], o[0] == actual || o[1] == actual)
        val sideRaw = (max(v.oddProb, 1 - v.oddProb) + max(v.bigProb, 1 - v.bigProb)) / 2
        // Yan güveni = iki bileşenin ortalama isabeti
        calSide.add(sideRaw, (actual % 2 == 0) == v.sideOdd)
        calSide.add(sideRaw, (actual >= 2) == v.sideBig)
    }
}
```

[Dosya #33/84] Proje Yolu: app/src/main/java/fan/superai/engine/FanEngine.kt

BÖLÜM 5 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 12.970 B (12.7 KB) | Satır: 288 satır SHA-256: 2d9cf3ed48a56d159238086e2e1c8225…

```
package fan.superai.engine

import fan.superai.engine.kotlin.CtwMember
import fan.superai.engine.kotlin.EsnMember
import fan.superai.engine.kotlin.FreqGapMember
import fan.superai.engine.kotlin.GruMember
import fan.superai.engine.kotlin.KalipArama2
import fan.superai.engine.kotlin.PpmMember
import fan.superai.engine.kotlin.RegimeMember
import fan.superai.engine.kotlin.StreakWaveMember

/** Dış (Python) meclis arayüzü. Android'de Chaquopy ile uygulanır. */
interface ExternalCouncil {
    /** Tüm geçmişi baştan öğrenir. Dönüş: her kayıt i için, 0..i-1 bilinirken yapılan tahmin; ve son (bir sonraki) tahmin. */
    fun replay(values: IntArray, times: LongArray): Pair<List<DoubleArray>, DoubleArray>
    /** Yeni kaydı öğrenir, bir sonraki tahmini döndürür. */
    fun step(value: Int, time: Long): DoubleArray
    /**
     * Kayıt sayısını TAM OLARAK [count]'a döndürür ve o andaki (bir sonraki) tahmini verir.
     * Hedefe ulaşılamazsa null döner; çağıran taraf tam yeniden öğrenmeye düşer.
     * Hedefin açıkça verilmesi iki meclisin adım adım eşitlenmesini garanti eder.
     */
    fun undoTo(count: Int): DoubleArray?
    fun stats(): List<MemberStat>
    fun info(): Map<String, String>
}

data class Scores(
    val n: Int,
    val top1: Double, val top2: Double, val sideAny: Double, val sideBoth: Double,
    val kTop1: Double, val kTop2: Double, val pTop1: Double, val pTop2: Double
)

data class EngineState(
    val count: Int,
    val recent: List<Int>,             // 1..4
    val verdict: Verdict?,
    val kotlinProbs: DoubleArray,
    val pythonProbs: DoubleArray?,
    val kotlinStats: List<MemberStat>,
    val pythonStats: List<MemberStat>,
    val pythonInfo: Map<String, String>,
    val kalipInfo: Map<String, String>,
    val regime: String,
    val scores: Scores,
    val lastSideHit: Boolean?,         // son yan tahmin tamamen tuttu mu
    val learning: Boolean,
    val busy: String?
)

/** Adım kaydı (grafikler ve başarı için). */
class StepLog(
    val top1: Boolean, val top2: Boolean, val shownHit: Boolean, val sideAny: Boolean, val sideBoth: Boolean,
    val kTop1: Boolean, val kTop2: Boolean, val pTop1: Boolean, val pTop2: Boolean, val pAvail: Boolean,
    val actual: Int,
    val probs: DoubleArray,
    val kotlinProbs: DoubleArray,
    val pythonProbs: DoubleArray?,
    val memberProbs: List<DoubleArray>
)
```

[Dosya #33/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/FanEngine.kt (Satır 61 ve sonrası)

```
61
62  /**
63   * Ana motor: iki meclis + baş hakem. Android'den bağımsızdır; tek bir iş parçacığından çağrılmalıdır.
64   */
65  class FanEngine(var cfg: EngineConfig, private var python: ExternalCouncil?) {
66      val values = ArrayList<Int>()
67      val times = ArrayList<Long>()
68      private val pHist = ArrayList<DoubleArray?>()   // her kayıt için Python'un önceki tahmini
69      private var pNext: DoubleArray? = null
70
71      lateinit var kotlin: Council; private set
72      lateinit var referee: Referee; private set
73      val logs = ArrayList<StepLog>()
74      var verdict: Verdict? = null; private set
75      private var kNext: DoubleArray = P.uniform()
76      private var lastSideHit: Boolean? = null
77
78      /**
79       * Bir adımı geri almak için gereken her şey: motorun o anki görünümü (kNext/verdict/
80       * log sayısı/yan isabeti) + meclis ve hakemin adım öncesi kayıtları.
81       */
82      private class UndoRec(val count: Int, val logs: Int, val hit: Boolean?, val next: DoubleArray, val verdict: Verdict?) {
83          var council: Any? = null
84          var referee: Any? = null
85          fun attach(c: Any?, r: Any?) { council = c; referee = r }
86      }
87
88      private val undoStack = ArrayDeque<UndoRec>()
89
90      /** Anında geri alınabilecek adım sayısı (arayüz/tanılama için). */
91      val undoDepth: Int get() = undoStack.size
92      /** Son geri alma hızlı yoldan mı yapıldı? (false → tüm geçmiş baştan kuruldu) */
93      var lastUndoFast: Boolean = true; private set
94      /** Son geri alma süresi (ms). */
95      var lastUndoMs: Long = 0; private set
96
97      companion object {
98          /** Kaç adımın geri alma kaydı bellekte tutulur (adım başına ~20 KB). */
99          const val UNDO_DEPTH = 64
100
101         fun kotlinMembers(): List<Member> = listOf(
102             KalipArama2(), CtwMember(), PpmMember(), FreqGapMember(),
103             StreakWaveMember(), RegimeMember(), GruMember(), EsnMember()
104         )
105         val KOTLIN_IDS = listOf("kalip2", "ctw", "ppm", "freqgap", "streak", "regime", "gru", "esn")
106     }
107
108     /**
109      * Python geri alması başarısız olduğunda Kotlin tarafı yine de anında döner; bu bayrak
110      * Python'un geride kaldığını işaretler ve bir sonraki eklemede onu yeniden öğreniriz.
111      * Böylece iki meclis asla farklı adımda kalmaz (veri bozulmaz).
112      */
113     var pyDirty = false
114         private set
115
116     fun setPython(p: ExternalCouncil?) { python = p; pyDirty = false }
117     fun hasPython() = python != null
118
119     private fun hist(n: Int) = History(values.toIntArray(), times.toLongArray(), n)
120
121     /** Python'u baştan öğretir (ağır). */
122     fun replayPython() {
123         val py = python
124         pyDirty = false
125         pHist.clear()
126         undoStack.clear()   // Python geçmişi değişti: eski geri alma kayıtları geçersiz
127         if (py == null) { repeat(values.size) { pHist.add(null) }; pNext = null; return }
128         try {
129             val (per, next) = py.replay(values.toIntArray(), times.toLongArray())
130             pHist.addAll(per); pNext = next
131             while (pHist.size < values.size) pHist.add(null)
132         } catch (e: Exception) {
133             repeat(values.size) { pHist.add(null) }; pNext = null
134         }
135     }
136
137     /** Kotlin meclisi ve hakemi (Python geçmişini kullanarak) baştan kurar. Hızlıdır. */
138     fun rebuildKotlin() {
139         kotlin = Council("Kotlin", kotlinMembers(), cfg)
140         referee = Referee(cfg)
141         logs.clear(); lastSideHit = null
142         undoStack.clear()
143         val vArr = values.toIntArray(); val tArr = times.toLongArray()
144         // Geri alma kayıtları yalnızca SON UNDO_DEPTH adım için tutulur (bellek sınırı).
145         val from = maxOf(0, values.size - UNDO_DEPTH)
```

[Dosya #33/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/FanEngine.kt (Satır 146 ve sonrası)

```
146         for (i in 0 until values.size) {
147             val h = History(vArr, tArr, i)
148             val pk = kotlin.predict(h)
149             val pp = pHist.getOrNull(i)
150             val vd = referee.decide(pk, pp)
151             val rec = if (i >= from) pushUndo(i, pk, vd) else null
152             record(i, vd, pk, pp, vArr[i])
153             kotlin.update(History(vArr, tArr, i + 1))
154             referee.update(vArr[i])
155             rec?.attach(kotlin.undoToken(), referee.undoToken())
156         }
157         kNext = kotlin.predict(History(vArr, tArr, values.size))
158         verdict = referee.decide(kNext, pNext)
159     }
160 
161     /** [count] kayıt öğrenilmiş durumun geri alma kaydını yığına ekler. */
162     private fun pushUndo(count: Int, next: DoubleArray, verdict: Verdict?): UndoRec? {
163         if (!::kotlin.isInitialized || !kotlin.undoable) return null
164         val rec = UndoRec(count, logs.size, lastSideHit, next.copyOf(), verdict)
165         undoStack.addLast(rec)
166         while (undoStack.size > UNDO_DEPTH) undoStack.removeFirst()
167         return rec
168     }
169 
170     private fun record(i: Int, vd: Verdict, pk: DoubleArray, pp: DoubleArray?, a: Int) {
171         val o = P.order(vd.probs)
172         val t1 = o[0] == a; val t2 = t1 || o[1] == a
173         val shown = a == vd.primary || a == vd.secondary
174         val oddOk = (a % 2 == 0) == vd.sideOdd; val bigOk = (a >= 2) == vd.sideBig
175         val ok = P.order(pk)
176         val op = pp?.let { P.order(it) }
177         lastSideHit = oddOk && bigOk
178         if (i >= cfg.silentFirst) {
179             val members = kotlin.memberPreds().map { it.copyOf() }
180             logs.add(StepLog(t1, t2, shown, oddOk || bigOk, oddOk && bigOk,
181                 ok[0] == a, ok[0] == a || ok[1] == a,
182                 op != null && op[0] == a, op != null && (op[0] == a || op[1] == a), op != null,
183                 a, vd.probs.copyOf(), pk.copyOf(), pp?.copyOf(), members))
184         }
185     }
186 
187     fun rebuildAll() { replayPython(); rebuildKotlin() }
188 
189     /** Yeni kayıt (0..3). */
190     fun add(v: Int, t: Long) {
191         // Python bir önceki geri almada eşitlenemediyse önce onu tam öğren (nadir, ama şart).
192         if (pyDirty) { replayPython(); verdict = referee.decide(kNext, pNext) }
193         val vd = verdict ?: referee.decide(kNext, pNext)
194         val i = values.size
195         val rec = pushUndo(i, kNext, vd)     // bu adımın geri alma kaydı
196         values.add(v); times.add(t)
197         pHist.add(pNext)
198         record(i, vd, kNext, pNext, v)
199         val vArr = values.toIntArray(); val tArr = times.toLongArray()
200         kotlin.update(History(vArr, tArr, values.size))
201         referee.update(v)
202         rec?.attach(kotlin.undoToken(), referee.undoToken())
203         pNext = try { python?.step(v, t) } catch (e: Exception) { null }
204         kNext = kotlin.predict(History(vArr, tArr, values.size))
205         verdict = referee.decide(kNext, pNext)
206     }
207 
208     /**
209      * Son kaydı geri alır.
210      *
211      * HIZLI YOL: her adım için tutulan küçük kayıtlar sayesinde meclis, hakem ve Python
212      * meclisi tam olarak bir adım geriye sarılır → milisaniyeler.
213      * YAVAŞ YOL: kayıt yoksa (ör. [UNDO_DEPTH] adımdan derin geri alma) tüm geçmiş baştan
214      * kurulur; doğru ama ağırdır.
215      */
216     fun undo(): Boolean {
217         if (values.isEmpty()) return false
218         val t0 = System.nanoTime()
219         val target = values.size - 1
220         // Üyelerin undo()'su bu geçmişi (geri alınan kayıt DAHİL) yeniden hesaplamak için ister.
221         val hFull = History(values.toIntArray(), times.toLongArray(), values.size)
222         val pPrev = pHist.getOrNull(target)          // silinen kayıt için yapılmış Python tahmini
223         val py = python
224         val back = if (py != null) (try { py.undoTo(target) } catch (e: Exception) { null }) else null
225         val rec = undoStack.lastOrNull()?.takeIf { it.count == target && it.council != null }
226         if (rec != null && kotlin.undo(rec.council, hFull) && referee.undo(rec.referee)) {
227             undoStack.removeLast()
228             values.removeAt(target); times.removeAt(target)
229             while (pHist.size > target) pHist.removeAt(pHist.size - 1)
230             while (logs.size > rec.logs) logs.removeAt(logs.size - 1)
```

[Dosya #33/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/FanEngine.kt (Satır 231 ve sonrası)

```
231                 lastSideHit = rec.hit
232                 kNext = rec.next.copyOf()
233                 pNext = back ?: pPrev
234                 // Python geri alınamadıysa hedefi kaçtı: bir sonraki eklemede yeniden öğrenilecek.
235                 if (py != null && back == null) pyDirty = true
236                 verdict = referee.decide(kNext, pNext)
237                 lastUndoFast = true
238                 lastUndoMs = (System.nanoTime() - t0) / 1_000_000L
239                 return true
240             }
241             // Kayıt yok ya da geri alma başarısız: tam yeniden kurma durumu baştan onarır.
242             values.removeAt(target); times.removeAt(target)
243             while (pHist.size > target) pHist.removeAt(pHist.size - 1)
244             if (py != null && back == null) replayPython()
245             rebuildKotlin()
246             lastUndoFast = false
247             lastUndoMs = (System.nanoTime() - t0) / 1_000_000L
248             return true
249         }
250 
251         fun clearAll() { values.clear(); times.clear(); pHist.clear(); pNext = null; rebuildAll() }
252 
253         private fun rate(sel: (StepLog) -> Boolean, last: Int = 100, filter: (StepLog) -> Boolean = { true }): Double {
254             val l = logs.takeLast(last).filter(filter)
255             return if (l.isEmpty()) 0.0 else l.count(sel).toDouble() / l.size
256         }
257 
258         fun scores(last: Int = 100) = Scores(
259             minOf(last, logs.size),
260             rate({ it.top1 }, last), rate({ it.top2 }, last), rate({ it.sideAny }, last), rate({ it.sideBoth }, last),
261             rate({ it.kTop1 }, last), rate({ it.kTop2 }, last),
262             rate({ it.pTop1 }, last) { it.pAvail }, rate({ it.pTop2 }, last) { it.pAvail }
263         )
264 
265         fun state(busy: String? = null): EngineState {
266             val kInfo = kotlin.members.first { it.id == "kalip2" }.info()
267             val reg = kotlin.members.first { it.id == "regime" }.info()["regime"] ?: "-"
268             return EngineState(
269                 values.size, values.takeLast(6).map { it + 1 }, verdict, kNext, pNext,
270                 kotlin.stats(), python?.let { try { it.stats() } catch (e: Exception) { emptyList() } } ?: emptyList(),
271                 python?.let { try { it.info() } catch (e: Exception) { emptyMap() } } ?: emptyMap(),
272                 kInfo, reg, scores(), lastSideHit, values.size < cfg.silentFirst, busy
273             )
274         }
275 
276         /** Kayan başarı serisi (grafik için). */
277         fun rollingSeries(sel: (StepLog) -> Boolean, win: Int = 50, filter: (StepLog) -> Boolean = { true }): List<Double> {
278             val l = logs.filter(filter)
279             if (l.size < win) return emptyList()
280             val out = ArrayList<Double>(); var s = 0
281             for (i in l.indices) {
282                 if (sel(l[i])) s++
283                 if (i >= win && sel(l[i - win])) s--
284                 if (i >= win - 1) out.add(s.toDouble() / win)
285             }
286             return out
287         }
288 }
```

[Dosya #34/84] Proje Yolu: app/src/main/java/fan/superai/engine/PythonBridge.kt BÖLÜM 5 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 9.351 B (9.1 KB) | Satır: 205 satır SHA-256: eced6d8aa2fee243cec1a9e3dba88c40…

```
1  package fan.superai.engine
2
3  import android.content.Context
4  import com.chaquo.python.PyObject
5  import com.chaquo.python.Python
6  import com.chaquo.python.android.AndroidPlatform
7  import org.json.JSONArray
8  import org.json.JSONObject
9  import fan.superai.v13.PyCapture
10 import fan.superai.v13.PyNumberInfo
11 import fan.superai.v13.PySideCapture
12 import fan.superai.v13.PySideMember
13 import fan.superai.v13.PySideStep
14 import java.io.File
15
16 /**
17  * Uygulamaya gömülü Python meclisi (Chaquopy). Tüm çağrılar motor iş parçacığından yapılır.
18  */
19 class PythonBridge(private val ctx: Context, private val cfgJson: String) : ExternalCouncil {
20     private companion object { const val SAVE_EVERY = 10 }
21
```

[Dosya #34/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/PythonBridge.kt (Satır 22 ve sonrası)

```
22      private val mod: PyObject
23      private val stateFile = File(ctx.filesDir, "py_state.pkl")
24      private var sinceSave = 0
25
26      init {
27          if (!Python.isStarted()) Python.start(AndroidPlatform(ctx))
28          mod = Python.getInstance().getModule("fan_super")
29          mod.callAttr("configure", cfgJson)
30      }
31
32      private fun arr(a: JSONArray) = DoubleArray(a.length()) { a.getDouble(it) }
33
34      /** Python listesini (PyObject) JSON'a hiç uğramadan DoubleArray'e çevirir — sıcak yol için. */
35      private fun arr(o: PyObject): DoubleArray {
36          val l = o.asList()
37          return DoubleArray(l.size) { l[it].toDouble() }
38      }
39
40      /** v1.3: true ise bir sonraki tam replay üye dağılımlarını da döndürür (ilk kurulum / Full Replay). */
41      @Volatile var captureMembers = false
42      /** Son [replay] çağrısında yakalanan üye dağılımları (önbellekten yüklemede yalnızca yeni kayıtlar). */
43      @Volatile var lastCapture: PyCapture? = null
44
45      private fun rows(a: JSONArray): List<DoubleArray> = List(a.length()) { arr(a.getJSONArray(it)) }
46
47      private fun capture(o: JSONObject, key: String, start: Int) {
48          try {
49              if (!o.has(key) || !o.has("ids")) { lastCapture = null; return }
50              val ids = o.getJSONArray("ids"); val m = o.getJSONArray(key)
51              lastCapture = PyCapture(List(ids.length()) { ids.getString(it) }, start, List(m.length()) { rows(m.getJSONArray(it))
 ↳ })
52          } catch (e: Exception) { lastCapture = null }
53      }
54
55      private fun parse(res: String): Pair<List<DoubleArray>, DoubleArray> {
56          val o = JSONObject(res)
57          val per = o.getJSONArray("per")
58          return List(per.length()) { arr(per.getJSONArray(it)) } to arr(o.getJSONArray("next"))
59      }
60
61      override fun replay(values: IntArray, times: LongArray): Pair<List<DoubleArray>, DoubleArray> {
62          val vj = JSONArray(values.toList()).toString()
63          val tj = JSONArray(times.toList()).toString()
64          lastCapture = null
65          val cached = try { mod.callAttr("load_state", stateFile.absolutePath, vj, tj).toString() } catch (e: Exception) { "" }
66          if (cached.isNotEmpty()) {
67              val r = parse(cached)
68              if (r.first.size == values.size) {
69                  val o = JSONObject(cached)
70                  capture(o, "tail_members", o.optInt("cached", 0))
71                  return r
72              }
73          }
74          val want = captureMembers
75          val text = mod.callAttr("replay", vj, tj, want).toString()
76          val r = parse(text)
77          if (want) capture(JSONObject(text), "members", 0)
78          save()
79          return r
80      }
81
82      /**
83       * Sıcak yol: her tek tuşlamada çağrılır. `step_fast` düz Python listesi döndürür,
84       * JSON'a hiç uğramaz (json.dumps + JSONArray.parse maliyeti kalkar).
85       */
86      override fun step(value: Int, time: Long): DoubleArray {
87          val r = arr(mod.callAttr("step_fast", value, time))
88          if (++sinceSave >= SAVE_EVERY) save()
89          return r
90      }
91
92      /**
93       * Python meclisini tam olarak [count] kayda döndürür (hedef tutmazsa null).
94       * `undo_to_fast` başarısızlıkta boş liste döner (gerçek tahminler hiçbir zaman
95       * boş olmadığı için bu belirsizliğe yer bırakmaz), başarıda düz liste döner —
96       * JSON'a hiç uğramadan.
97       */
98      override fun undoTo(count: Int): DoubleArray? {
99          val res = try { mod.callAttr("undo_to_fast", count) } catch (e: Exception) { null } ?: return null
100         val l = res.asList()
101         if (l.isEmpty()) return null
102         sinceSave = SAVE_EVERY      // durum dosyası bir sonraki adımda tazelenir
103         return DoubleArray(l.size) { l[it].toDouble() }
104     }
105
```

[Dosya #34/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/PythonBridge.kt (Satır 106 ve sonrası)

```
106     fun save() {
107         try { mod.callAttr("save_state", stateFile.absolutePath); sinceSave = 0; sideSave() } catch (_: Exception) {}
108     }
109
110     fun deleteState() { stateFile.delete(); sideFile.delete() }
111
112     // ---------------------------------------------------------------- v1.3: üye dağılımları + yan meclisi
113     private val sideFile = File(ctx.filesDir, "py_side_state.pkl")
114     private var sideIds: List<String> = emptyList()
115     private var sideNames: List<String> = emptyList()
116
117     /** Canlı Python meclisinin son (bir sonraki) rakam tahminleri, üye bazında. */
118     fun memberInfo(): PyNumberInfo? {
119         val t = mod.callAttr("member_info").toString()
120         if (t.length < 3) return null
121         val o = JSONObject(t)
122         val ids = o.getJSONArray("ids"); val names = o.getJSONArray("names")
123         return PyNumberInfo(List(ids.length()) { ids.getString(it) }, List(names.length()) { names.getString(it) }, rows(o.getJS
    ↳ ONArray("preds")))
124     }
125
126     private fun sideMembers(o: JSONObject): PySideStep {
127         val m = o.getJSONArray("members")
128         val list = List(m.length()) { i ->
129             val e = m.getJSONObject(i)
130             PySideMember(sideIds.getOrElse(i) { "py_side_$i" }, sideNames.getOrElse(i) { "yan $i" },
131                 arr(e.getJSONArray("bs")), arr(e.getJSONArray("oe")), arr(e.getJSONArray("comb")))
132         }
133         return PySideStep(list)
134     }
135
136     private fun readIds(o: JSONObject) {
137         if (!o.has("ids")) return
138         val ids = o.getJSONArray("ids"); val names = o.getJSONArray("names")
139         sideIds = List(ids.length()) { ids.getString(it) }
140         sideNames = List(names.length()) { names.getString(it) }
141     }
142
143     /**
144      * Yan meclisini kayıtlarla eşitler. Kayıtlı durum mevcut verinin önekiyse yalnızca yeni kayıtlar işlenir;
145      * değilse baştan öğrenilir. [sandbox]=true: canlı yan meclisine dokunmaz (araştırma).
146      */
147     fun sideSync(bs: IntArray, oe: IntArray, times: LongArray, sandbox: Boolean = false): PySideCapture? {
148         val bj = JSONArray(bs.toList()).toString(); val oj = JSONArray(oe.toList()).toString()
149         if (!sandbox) {
150             val t = try { mod.callAttr("side_load", sideFile.absolutePath, bj, oj).toString() } catch (e: Exception) { "" }
151             if (t.isNotEmpty()) {
152                 val o = JSONObject(t); readIds(o)
153                 val tail = o.getJSONArray("tail")
154                 return PySideCapture(o.optInt("cached", 0), List(tail.length()) { sideMembers(tail.getJSONObject(it)) },
155                     sideMembers(o))
156             }
157         }
158         val t = mod.callAttr("side_replay", bj, oj, JSONArray(times.toList()).toString(), sandbox).toString()
159         val o = JSONObject(t); readIds(o)
160         val st = o.getJSONArray("steps")
161         val cap = PySideCapture(0, List(st.length()) { sideMembers(st.getJSONObject(it)) }, sideMembers(o.getJSONObject("next"))
    ↳ )
162         if (!sandbox) sideSave()
163         return cap
164     }
165
166     fun sideStep(bs: Int, oe: Int, t: Long): PySideStep? {
167         val s = mod.callAttr("side_step", bs, oe, t).toString()
168         return if (s.isEmpty()) null else sideMembers(JSONObject(s))
169     }
170
171     fun sideNext(): PySideStep? {
172         val s = mod.callAttr("side_next").toString()
173         return if (s.isEmpty()) null else sideMembers(JSONObject(s))
174     }
175
176     /** null → ulaşılamadı (çağıran yan meclisi yeniden öğretmeli). */
177     fun sideUndoTo(n: Int): PySideStep? {
178         val s = try { mod.callAttr("side_undo_to", n).toString() } catch (e: Exception) { "" }
179         return if (s.isEmpty()) null else sideMembers(JSONObject(s))
180     }
181
182     fun sideSave() { try { mod.callAttr("side_save", sideFile.absolutePath) } catch (_: Exception) {} }
183
184     /** ARAŞTIRMA modu: canlı meclise dokunmadan tüm geçmişi oynatır (üye dağılımlarıyla). */
185     fun sandboxReplay(values: IntArray, times: LongArray): PyCapture? {
186         val vj = JSONArray(values.toList()).toString(); val tj = JSONArray(times.toList()).toString()
187         val o = JSONObject(mod.callAttr("sandbox_replay", vj, tj).toString())
188         val ids = o.getJSONArray("ids"); val m = o.getJSONArray("members")
```

[Dosya #34/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/PythonBridge.kt (Satır 189 ve sonrası)

```
189         return PyCapture(List(ids.length()) { ids.getString(it) }, 0, List(m.length()) { rows(m.getJSONArray(it)) })
190     }
191
192     override fun stats(): List<MemberStat> {
193         val a = JSONArray(mod.callAttr("stats").toString())
194         return List(a.length()) { i ->
195             val o = a.getJSONObject(i)
196             MemberStat(o.getString("id"), o.getString("name"), o.getDouble("top1"), o.getDouble("top2"),
197                 o.getDouble("weight"), o.getBoolean("benched"), o.getBoolean("enabled"), o.getInt("n"))
198         }.sortedWith(compareBy<MemberStat>({ !it.enabled }, { it.benched }).thenByDescending { it.weight })
199     }
200
201     override fun info(): Map<String, String> {
202         val o = JSONObject(mod.callAttr("info").toString())
203         return o.keys().asSequence().associateWith { o.get(it).toString() }
204     }
205 }
```

[Dosya #35/84] Proje Yolu: app/src/main/java/fan/superai/engine/Discovery.kt

BÖLÜM 5 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 11.220 B (11.0 KB) | Satır: 220 satır SHA-256: 6441e11aa3a7a1d5e41a63c9266a21a3…

```
1  package fan.superai.engine
2
3  import java.util.zip.Deflater
4  import kotlin.math.abs
5  import kotlin.math.cos
6  import kotlin.math.exp
7  import kotlin.math.ln
8  import kotlin.math.max
9  import kotlin.math.min
10 import kotlin.math.pow
11 import kotlin.math.sin
12 import kotlin.math.sqrt
13 import kotlin.random.Random
14
15 /** İstatistik yardımcıları. */
16 object Stats {
17     private fun lnGamma(x: Double): Double {
18         val c = doubleArrayOf(76.18009172947146, -86.50532032941677, 24.01409824083091,
19             -1.231739572450155, 0.1208650973866179e-2, -0.5395239384953e-5)
20         var y = x; val tmp = x + 5.5 - (x + 0.5) * ln(x + 5.5)
21         var ser = 1.000000000190015
22         for (cc in c) { y += 1; ser += cc / y }
23         return -tmp + ln(2.5066282746310005 * ser / x)
24     }
25     /** Düzenli üst eksik gama Q(a,x). */
26     fun gammaQ(a: Double, x: Double): Double {
27         if (x <= 0) return 1.0
28         if (x < a + 1) {
29             var sum = 1.0 / a; var del = sum; var ap = a
30             repeat(300) { ap += 1; del *= x / ap; sum += del; if (abs(del) < abs(sum) * 1e-12) return@repeat }
31             return 1 - sum * exp(-x + a * ln(x) - lnGamma(a))
32         }
33         var b = x + 1 - a; var c = 1e300; var d = 1 / b; var h = d
34         for (i in 1..300) {
35             val an = -i * (i - a); b += 2
36             d = an * d + b; if (abs(d) < 1e-300) d = 1e-300
37             c = b + an / c; if (abs(c) < 1e-300) c = 1e-300
38             d = 1 / d; val del = d * c; h *= del
39             if (abs(del - 1) < 1e-12) break
40         }
41         return exp(-x + a * ln(x) - lnGamma(a)) * h
42     }
43     fun chiP(chi: Double, df: Int) = gammaQ(df / 2.0, chi / 2.0)
44     fun normP2(z: Double): Double { // iki yönlü
45         val t = 1 / (1 + 0.5 * abs(z))
46         val y = t * exp(-z * z / 2 - 1.26551223 + t * (1.00002368 + t * (0.37409196 + t * (0.09678418 + t * (-0.18628806 +
47             t * (0.27886807 + t * (-1.13520398 + t * (1.48851587 + t * (-0.82215223 + t * 0.17087277)))))))))
48         return y.coerceIn(0.0, 1.0)
49     }
50     fun contingencyP(t: Array<DoubleArray>): Double {
51         val r = t.size; val c = t[0].size
52         val rs = DoubleArray(r) { t[it].sum() }; val cs = DoubleArray(c) { j -> t.sumOf { it[j] } }
53         val n = rs.sum(); if (n == 0.0) return 1.0
54         var chi = 0.0; var dfR = 0; var dfC = 0
55         for (i in 0 until r) if (rs[i] > 0) dfR++
56         for (j in 0 until c) if (cs[j] > 0) dfC++
57         for (i in 0 until r) for (j in 0 until c) { val e = rs[i] * cs[j] / n; if (e > 0) chi += (t[i][j] - e).pow(2) / e }
58         return chiP(chi, max(1, (dfR - 1) * (dfC - 1)))
59     }
60 }
61
62 data class TestRow(val name: String, val result: String, val status: Int) // 0 ok, 1 dikkat, 2 bilgi
```

[Dosya #35/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/Discovery.kt (Satır 63 ve sonrası)

```
63
64 data class DiscoveryReport(
65     val n: Int,
66     val tests: List<TestRow>,
67     val extra: List<TestRow>,
68     val mutualInfo: DoubleArray,   // gecikme 1..10
69     val miThreshold: Double,
70     val verdict: String,
71     val lag2Watch: Boolean
72 )
73
74 /** 🔍 Keşif Laboratuvarı: verinin gerçekten rastgele olup olmadığını sınar. */
75 object Discovery {
76     fun run(v: IntArray, times: LongArray): DiscoveryReport {
77         val n = v.size
78         if (n < 60) return DiscoveryReport(n, listOf(TestRow("Yeterli veri yok", "en az 60 kayıt", 2)), emptyList(), DoubleArray
 ↳ (10), 0.0, "Veri toplanıyor…", false)
79         val tests = ArrayList<TestRow>(); val extra = ArrayList<TestRow>()
80         var flags = 0
81         val nTests = 9
82         val alpha = 0.05 / nTests // Bonferroni
83         fun fmt(p: Double) = "p=" + String.format("%.3f", p)
84         fun row(name: String, p: Double, okText: String) {
85             val st = if (p < alpha) 1 else if (p < 0.05) 1 else 0
86             if (p < alpha) flags++
87             tests += TestRow(name, if (st == 0) "✓ $okText · ${fmt(p)}" else "👀 iz · ${fmt(p)}", st)
88         }
89         // 1) Dağılım
90         val cnt = DoubleArray(K); v.forEach { cnt[it]++ }
91         val e = n / 4.0
92         row("Dağılım (ki-kare)", Stats.chiP(cnt.sumOf { (it - e).pow(2) / e }, 3), "eşit")
93         // 2) Gecikme 1..5 bağımlılık
94         val lagP = DoubleArray(6)
95         for (lag in 1..5) {
96             val t = Array(K) { DoubleArray(K) }
97             for (i in 0 until n - lag) t[v[i]][v[i + lag]]++
98             lagP[lag] = Stats.contingencyP(t)
99         }
100        row("Gecikme 1", lagP[1], "yok"); row("Gecikme 2", lagP[2], "yok")
101        val m35 = minOf(lagP[3], lagP[4], lagP[5]) * 3
102        row("Gecikme 3–5", min(1.0, m35), "yok")
103        // 3) Sıkıştırma
104        fun comp(b: ByteArray): Int { val d = Deflater(9); d.setInput(b); d.finish(); val o = ByteArray(b.size * 2 + 64); val k
 ↳ = d.deflate(o); d.end(); return k }
105        val real = comp(ByteArray(n) { v[it].toByte() })
106        val rnd = Random(42)
107        val sims = (0 until 20).map { comp(ByteArray(n) { rnd.nextInt(4).toByte() }) }
108        val mu = sims.average(); val sd = sqrt(sims.sumOf { (it - mu).pow(2) } / 19).coerceAtLeast(1.0)
109        val zc = (real - mu) / sd
110        val pc = if (zc < 0) Stats.normP2(zc) else 1.0
111        row("Sıkıştırma", pc, "rastgele gibi")
112        // 4) Seri testleri
113        fun runsP(f: (Int) -> Boolean): Double {
114            val y = v.map(f); val m = y.count { it }.toDouble()
115            val runs = 1 + (0 until n - 1).count { y[it] != y[it + 1] }
116            val ex = 2 * m * (n - m) / n + 1
117            val vr = (ex - 1) * (ex - 2) / (n - 1)
118            return if (vr <= 0) 1.0 else Stats.normP2((runs - ex) / sqrt(vr))
119        }
120        row("Seri testi T/Ç", runsP { it % 2 == 0 }, "normal")
121        row("Seri testi K/B", runsP { it >= 2 }, "normal")
122        // 5) Saat etkisi
123        val hourT = Array(4) { DoubleArray(K) }
124        for (i in 0 until n) { val hr = ((times[i] / 3600) % 24).toInt(); hourT[(hr / 6).coerceIn(0, 3)][v[i]]++ }
125        row("Saat etkisi", Stats.contingencyP(hourT), "yok")
126        // Permütasyon entropisi (derece 3)
127        val pat = HashMap<String, Int>()
128        for (i in 0 until n - 2) {
129            val w = listOf(v[i] * 10 + 0, v[i + 1] * 10 + 1, v[i + 2] * 10 + 2)
130            val key = w.sortedBy { it / 10 * 100 + it % 10 }.joinToString("") { (it % 10).toString() }
131            pat[key] = (pat[key] ?: 0) + 1
132        }
133        val tot = pat.values.sum().toDouble()
134        val pe = -pat.values.sumOf { val p = it / tot; p * ln(p) } / ln(6.0)
135        extra += TestRow("Permütasyon entropisi", String.format("%.2f / 1.00", pe), 2)
136        // Spektral: her değer için gösterge dizisinin periodogramı (Fisher g)
137        var bestP = 1.0; var bestPer = 0.0
138        val L = min(n, 512); val start = n - L
139        for (k in 0 until K) {
140            val x = DoubleArray(L) { if (v[start + it] == k) 0.75 else -0.25 }
141            val m = L / 2
142            val pw = DoubleArray(m) { f ->
143                val fr = 2 * Math.PI * (f + 1) / L
144                var re = 0.0; var im = 0.0
145                for (t in 0 until L) { re += x[t] * cos(fr * t); im += x[t] * sin(fr * t) }
```

[Dosya #35/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/Discovery.kt (Satır 146 ve sonrası)

```
                re * re + im * im
            }
            val g = pw.max() / pw.sum()
            val p = min(1.0, m * (1 - g).pow(m - 1))
            if (p < bestP) { bestP = p; bestPer = L / (pw.indices.maxBy { pw[it] } + 1.0) }
        }
        extra += TestRow("Spektral periyot", if (bestP * 4 < 0.05) "👀 ~${String.format("%.1f", bestPer)} tur · ${fmt(bestP * 4)}" else "anlamlı yok", if (bestP * 4 < 0.05) 1 else 0)
        // Değişim noktası (Bayesçi, Dirichlet-kategorik, basitleştirilmiş BOCPD)
        extra += TestRow("Değişim noktası (BOCPD)", bocpd(v)?.let { "#$it ?" } ?: "yok", 2)
        // "Gecikti gelir" (hazard): en uzun süredir gelmeyen sayının gelme oranı
        var hz = 0; var hzN = 0; val lastSeen = IntArray(K) { -1 }
        for (i in 0 until n) {
            if (i > 20) { val od = (0 until K).minBy { lastSeen[it] }; hzN++; if (v[i] == od) hz++ }
            lastSeen[v[i]] = i
        }
        val hzr = hz.toDouble() / max(1, hzN)
        val hzz = (hzr - 0.25) / sqrt(0.25 * 0.75 / max(1, hzN))
        extra += TestRow("\"Gecikti gelir\" (hazard)", if (abs(hzz) > 2.5) "👀 %${(hzr * 100).toInt()} (şans %25)" else "etki yok · %${(hzr * 100).toInt()}", if (abs(hzz) > 2.5) 1 else 0)
        // Sıcak-soğuk: son 20'de en sık gelen sayının gelme oranı
        var hot = 0; var hotN = 0
        for (i in 20 until n) {
            val c = IntArray(K); for (j in i - 20 until i) c[v[j]]++
            val hs = (0 until K).maxBy { c[it] }; hotN++; if (v[i] == hs) hot++
        }
        val hr = hot.toDouble() / max(1, hotN)
        val hzh = (hr - 0.25) / sqrt(0.25 * 0.75 / max(1, hotN))
        extra += TestRow("Sıcak-soğuk (Hawkes/Pólya)", if (abs(hzh) > 2.5) "👀 %${(hr * 100).toInt()} (şans %25)" else "etki yok · %${(hr * 100).toInt()}", if (abs(hzh) > 2.5) 1 else 0)

        // Karşılıklı bilgi
        val mi = DoubleArray(10)
        for (lag in 1..10) {
            val t = Array(K) { DoubleArray(K) }; var m = 0.0
            for (i in 0 until n - lag) { t[v[i]][v[i + lag]]++; m++ }
            var s = 0.0
            val rs = DoubleArray(K) { t[it].sum() }; val cs = DoubleArray(K) { j -> t.sumOf { it[j] } }
            for (a in 0 until K) for (b in 0 until K) if (t[a][b] > 0) s += t[a][b] / m * ln(t[a][b] * m / (rs[a] * cs[b]))
            mi[lag - 1] = s / ln(2.0)
        }
        // Rastgele veride MI ≈ (K-1)^2/(2 m ln2); %99 eşik için ki-kare(9) ~21.67
        val thr = 21.67 / (2.0 * n * ln(2.0))
        val lag2 = lagP[2] < 0.05
        val strong = flags > 0
        val verdict = when {
            strong -> "Anlamlı bir düzen izi var. İlgili üyeler yarışta öne çıkabilir."
            lag2 -> "Güçlü düzen yok. Gecikme-2 takipte; ilgili üyelerin ağırlığı otomatik ayarlanıyor."
            tests.any { it.status == 1 } -> "Güçlü düzen yok. Zayıf izler takip ediliyor."
            else -> "Veri şu an rastgele görünüyor. Tahmin edilebilir güçlü bir düzen yok."
        }
        return DiscoveryReport(n, tests, extra, mi, thr, verdict, lag2)
    }

    /** Basitleştirilmiş BOCPD: en olası koşu uzunluğunun ani düştüğü son noktayı döndürür. */
    private fun bocpd(v: IntArray, hazard: Double = 1.0 / 200, R: Int = 300): Int? {
        var probs = doubleArrayOf(1.0)
        var counts = arrayOf(DoubleArray(K))
        var lastCp: Int? = null
        var prevMap = 0
        for (t in v.indices) {
            val x = v[t]
            val pred = DoubleArray(probs.size) { r -> (counts[r][x] + 0.5) / (counts[r].sum() + 2.0) }
            val grow = DoubleArray(probs.size) { probs[it] * pred[it] * (1 - hazard) }
            val cp = probs.indices.sumOf { probs[it] * pred[it] * hazard }
            val np = DoubleArray(min(grow.size + 1, R))
            np[0] = cp
            for (i in 0 until np.size - 1) np[i + 1] = grow[i]
            val s = np.sum(); for (i in np.indices) np[i] /= s
            val nc = Array(np.size) { i -> if (i == 0) DoubleArray(K) else counts[i - 1].copyOf().also { it[x]++ } }
            probs = np; counts = nc
            val map = np.indices.maxBy { np[it] }
            if (t > 30 && map + 20 < prevMap) lastCp = t - map
            prevMap = map
        }
        return lastCp
    }
}
```

[Dosya #36/84] Proje Yolu: app/src/main/java/fan/superai/engine/Analytics.kt **BÖLÜM 5 · Kotlin**

Kök: /home/user/FanSuper-FANLAB | Boyut: 5.806 B (5.7 KB) | Satır: 140 satır SHA-256: 58db7ed1983b18aa665a095587fef68f…

```kotlin
package fan.superai.engine

import kotlin.math.ln
import kotlin.math.sqrt
import kotlin.random.Random

/**
 * Fan LAB istatistikleri. Bu sinif UI'dan bagimsizdir ve yalnizca kronolojik
 * tahmin kayitlari uzerinde calisir. Amac model sayisini artirmak degil,
 * mevcut motorun gercekten ne kadar bilgi tasidigini olcmektir.
 */
data class ResearchReport(
    val n: Int,
    val top1: Double,
    val top2: Double,
    val logLoss: Double,
    val brier: Double,
    val entropy: Double,
    val calibrationGap: Double,
    val bootstrapLo: Double,
    val bootstrapHi: Double,
    val permutationP: Double,
    val permutationPercentile: Double,
    val randomBaseline: Double,
    val memberDisagreement: Double,
    val memberDiversity: Double,
    val walkForwardTop1: Double,
    val walkForwardTop2: Double,
    val recentTop1: Double,
    val recentLogLoss: Double,
    val status: String
)

object ResearchLab {
    fun analyze(logs: List<StepLog>, bootstrap: Int = 1000, permutations: Int = 1000, seed: Int = 8144): ResearchReport {
        if (logs.isEmpty()) return ResearchReport(
            n=0, top1=0.0, top2=0.0, logLoss=0.0, brier=0.0, entropy=0.0, calibrationGap=0.0,
            bootstrapLo=0.0, bootstrapHi=0.0, permutationP=1.0, permutationPercentile=0.0, randomBaseline=0.25,
            memberDisagreement=0.0, memberDiversity=0.0, walkForwardTop1=0.0, walkForwardTop2=0.0,
            recentTop1=0.0, recentLogLoss=0.0, status="Veri bekleniyor")
        val xs = logs
        val n = xs.size
        val top1 = xs.count { it.top1 }.toDouble()/n
        val top2 = xs.count { it.top2 }.toDouble()/n
        val ll = xs.sumOf { -ln(it.probs[it.actual].coerceAtLeast(1e-9)) }/n
        val brier = xs.sumOf { logBrier(it.probs, it.actual) }/n
        val entropy = xs.sumOf { entropy(it.probs) }/n
        val gap = calibrationGap(xs)
        val rnd = Random(seed)
        val boots = DoubleArray(bootstrap)
        repeat(bootstrap) {
            var hit=0
            repeat(n) { if (xs[rnd.nextInt(n)].top1) hit++ }
            boots[it]=hit.toDouble()/n
        }
        boots.sort()
        val lo=boots[(bootstrap*0.025).toInt().coerceIn(0,bootstrap-1)]
        val hi=boots[(bootstrap*0.975).toInt().coerceIn(0,bootstrap-1)]
        val actuals=xs.map { it.actual }
        val preds=xs.map { it.probs.argmax() }
        var ge=0
        repeat(permutations) {
            val a=actuals.shuffled(rnd)
            var hit=0
            for (i in 0 until n) if (preds[i]==a[i]) hit++
            if (hit.toDouble()/n >= top1) ge++
        }
        val p=(ge+1.0)/(permutations+1.0)
        val percentile=1.0-p
        val dis=memberDisagreement(xs)
        val diversity=memberDiversity(xs)
        val wf=walkForward(xs)
        val recent=xs.takeLast(minOf(100,n))
        val recentTop=recent.count { it.top1 }.toDouble()/recent.size
        val recentLl=recent.sumOf { -ln(it.probs[it.actual].coerceAtLeast(1e-9)) }/recent.size
        val status=when { n<50 -> "Ornek az"; percentile>=0.99 -> "Guclu istatistiksel ayrisma"; percentile>=0.95 -> "Anlamli sinyal"; else -> "Kanıt sinirli" }
        return ResearchReport(n,top1,top2,ll,brier,entropy,gap,lo,hi,p,percentile,0.25,dis,diversity,wf.first,wf.second,recentTop,recentLl,status)
    }

    private fun walkForward(xs: List<StepLog>): Pair<Double,Double> {
```

[Dosya #36/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/Analytics.kt (Satır 81 ve sonrası)

```
        // Tahminler motorun zaten kronolojik olarak, gercek sonuc gorulmeden
        // once uretilmis kayitlari oldugu icin bu seri leakage-free walk-forward
        // degerlendirme olarak kullanilir. Ilk silentFirst adimlari log'a girmez.
        if (xs.isEmpty()) return 0.0 to 0.0
        var h1=0; var h2=0
        xs.forEach {
            val o=it.probs.indices.sortedByDescending { k -> it.probs[k] }
            if (o[0]==it.actual) h1++
            if (o[0]==it.actual || o[1]==it.actual) h2++
        }
        return h1.toDouble()/xs.size to h2.toDouble()/xs.size
    }

    private fun memberDisagreement(xs: List<StepLog>): Double {
        var total=0; var disagree=0
        xs.forEach { x ->
            val a=x.memberProbs.map { it.argmax() }.distinct().size
            if (a>1) disagree++
            total++
        }
        return if(total==0) 0.0 else disagree.toDouble()/total
    }

    private fun memberDiversity(xs: List<StepLog>): Double {
        var sum=0.0; var count=0
        xs.forEach { x ->
            for(i in x.memberProbs.indices) for(j in i+1 until x.memberProbs.size) {
                sum += js(x.memberProbs[i], x.memberProbs[j]); count++
            }
        }
        return if(count==0) 0.0 else sum/count
    }

    private fun calibrationGap(xs: List<StepLog>): Double {
        val bins=Array(10) { mutableListOf<Boolean>() }
        xs.forEach {
            val c=it.probs.maxOrNull() ?: 0.25
            val b=((c*10).toInt()).coerceIn(0,9)
            bins[b].add(it.probs.argmax()==it.actual)
        }
        var weighted=0.0
        bins.forEachIndexed { i,b -> if(b.isNotEmpty()) weighted += b.size.toDouble()/xs.size* kotlin.math.abs(b.count{it}.toDouble()/b.size-(i+0.5)/10.0) }
        return weighted
    }

    private fun logBrier(p: DoubleArray, a: Int): Double {
        var s=0.0
        for(i in p.indices) { val y=if(i==a)1.0 else 0.0; s+=(p[i]-y)*(p[i]-y) }
        return s
    }

    private fun entropy(p: DoubleArray): Double = -p.sumOf { q -> val x=q.coerceAtLeast(1e-12); x*ln(x) }

    private fun js(a: DoubleArray,b: DoubleArray): Double {
        val m=DoubleArray(a.size){(a[it]+b[it])/2.0}
        return 0.5*kl(a,m)+0.5*kl(b,m)
    }
    private fun kl(a: DoubleArray,b: DoubleArray): Double = a.indices.sumOf { i -> val x=a[i].coerceAtLeast(1e-12); x*ln(x/b[i].coerceAtLeast(1e-12)) }
    private fun DoubleArray.argmax(): Int = indices.maxByOrNull { this[it] } ?: 0
}
```

[Dosya #37/84] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/KalipArama2.kt BÖLÜM 5 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 8.313 B (8.1 KB) | Satır: 208 satır SHA-256: eed0e2943ea6c33d7311b9b75d8bf9b2…

```
package fan.superai.engine.kotlin

import fan.superai.engine.History
import fan.superai.engine.K
import fan.superai.engine.Member
import fan.superai.engine.P
import kotlin.math.exp
import kotlin.math.ln
import kotlin.math.max

/**
 * Kalıp Arama 2.0
 * - Tüm geçmiş, hash indeksiyle anında aranır (tarama yok).
 * - 1..maxLen arası tüm uzunluklar aynı anda.
 * - 6 görünüm: Ham, Delta, Şekil (sayıdan bağımsız), Tek/Çift, Küçük/Büyük, Ayna.
 * - Her (görünüm, uzunluk) çifti bir alt-uzmandır; Fixed-Share ile yarışır → kalıp değişince
 *   lider otomatik değişir.
```

[Dosya #37/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/KalipArama2.kt (Satır 18 ve sonrası)

```kotlin
 */
class KalipArama2(private val maxLen: Int = 30) : Member {
    override val id = "kalip2"
    override val name = "Kalıp Arama 2.0"

    companion object {
        val VIEW_NAMES = arrayOf("Ham", "Delta", "Şekil", "T/Ç", "K/B", "Ayna")
        const val V = 6
    }

    // Anahtar → sonuç sayaçları (4'lük)
    private val table = HashMap<Long, IntArray>(1 shl 16)
    private val nSub = V * maxLen
    private val w = DoubleArray(nSub) { 1.0 }
    private val alpha = 0.01
    private val eta = 0.5

    // Son tahmindeki alt-uzman dağılımları (sonuç uzayında 0..3)
    private var lastSub = arrayOfNulls<DoubleArray>(nSub)
    private var lastCount = IntArray(nSub)
    private var lastSize = -1

    // Aktif kalıp bilgisi
    private var leader = -1
    private var leaderSince = 0
    private var step = 0

    // ---- geri alma ----
    override val undoable = true
    private class Tok(val w: DoubleArray, val step: Int, val leader: Int, val leaderSince: Int,
                      val lastSize: Int, val lastSub: Array<DoubleArray?>, val lastCount: IntArray)
    private var tok: Tok? = null
    override fun undoToken(): Any? = tok

    override fun undo(token: Any?, h: History) {
        val t = token as? Tok ?: return
        t.w.copyInto(w)
        step = t.step; leader = t.leader; leaderSince = t.leaderSince; lastSize = t.lastSize
        t.lastSub.copyInto(lastSub)
        t.lastCount.copyInto(lastCount)
        // Bu adımın indekse yazdığı sayaçları geri al: aynı anahtarlar yeniden hesaplanır,
        // yalnızca bu adımda oluşmuş (sayacı sıfırlanan) anahtarlar silinir.
        val end = h.size - 1
        for (view in 0 until V) for (len in 1..maxLen) {
            if (end - len < 0) break
            if (view == 1 && end - len < 1) break
            val kk = key(view, len, h, end)
            val code = outcomeCode(view, h, len)
            if (code >= K) continue
            val c = table[kk] ?: continue
            if (c[code] > 0) c[code]--
            if (c.sum() == 0) table.remove(kk)
        }
    }

    private fun seq(h: History, view: Int, i: Int): Int {
        val v = h[i]
        return when (view) {
            0 -> v
            1 -> if (i == 0) 0 else (v - h[i - 1] + K) % K
            3 -> v % 2 // 0,2 → 1 ve 3 (tek) = 0 ; 1,3 → çift =1
            4 -> if (v >= 2) 1 else 0
            5 -> 3 - v // ayna (1↔4, 2↔3)
            else -> v
        }
    }

    private fun key(view: Int, len: Int, h: History, end: Int): Long {
        // end: bağlamın bittiği indeks (dahil değil)
        var x = 1469598103934665603L xor (view.toLong() * 1000003L) xor (len.toLong() shl 40)
        if (view == 2) {
            // Şekil: ilk görülme sırasına göre yeniden etiketle
            val map = IntArray(K) { -1 }; var nxt = 0
            for (j in end - len until end) {
                val v = h[j]
                if (map[v] == -1) map[v] = nxt++
                x = (x xor map[v].toLong()) * 1099511628211L
            }
        } else {
            for (j in end - len until end) x = (x xor seq(h, view, j).toLong()) * 1099511628211L
        }
        return x
    }

    /** Sonuç kodunu gerçek değere çevir (tahmin için). */
```

[Dosya #37/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/KalipArama2.kt (Satır 103 ve sonrası)

```
103     private fun outcomeToDist(view: Int, c: IntArray, h: History, len: Int): DoubleArray? {
104         val n = c.sum()
105         if (n == 0) return null
106         val p = DoubleArray(K)
107         val last = h.last()
108         when (view) {
109             0 -> for (k in 0 until K) p[k] = c[k].toDouble()
110             1 -> for (d in 0 until K) p[(last + d) % K] += c[d].toDouble()
111             5 -> for (k in 0 until K) p[3 - k] += c[k].toDouble() // ayna sonucu geri çevir
112             3 -> { // 0 → tek (0,2), 1 → çift (1,3)
113                 p[0] += c[0] / 2.0; p[2] += c[0] / 2.0; p[1] += c[1] / 2.0; p[3] += c[1] / 2.0
114             }
115             4 -> { p[0] += c[0] / 2.0; p[1] += c[0] / 2.0; p[2] += c[1] / 2.0; p[3] += c[1] / 2.0 }
116             2 -> {
117                 val map = IntArray(K) { -1 }; var nxt = 0
118                 val inv = IntArray(K) { -1 }
119                 for (j in h.size - len until h.size) {
120                     val v = h[j]; if (map[v] == -1) { map[v] = nxt; inv[nxt] = v; nxt++ }
121                 }
122                 val free = (0 until K).filter { map[it] == -1 }
123                 for (lab in 0 until K) {
124                     if (c[lab] == 0) continue
125                     if (lab < nxt) p[inv[lab]] += c[lab].toDouble()
126                     else if (free.isNotEmpty()) for (f in free) p[f] += c[lab].toDouble() / free.size
127                 }
128             }
129         }
130         // KT tahmincisi
131         val tot = p.sum()
132         for (k in 0 until K) p[k] = (p[k] + 0.5) / (tot + 2.0)
133         return P.normalize(p)
134     }
135 
136     private fun outcomeCode(view: Int, h: History, len: Int): Int {
137         val i = h.size - 1
138         if (view == 2) {
139             val map = IntArray(K) { -1 }; var nxt = 0
140             for (j in i - len until i) { val v = h[j]; if (map[v] == -1) map[v] = nxt++ }
141             return if (map[h[i]] == -1) nxt else map[h[i]]
142         }
143         return seq(h, view, i)
144     }
145 
146     override fun predict(h: History): DoubleArray {
147         lastSize = h.size
148         val out = DoubleArray(K)
149         var tw = 0.0
150         for (view in 0 until V) for (len in 1..maxLen) {
151             val s = view * maxLen + (len - 1)
152             lastSub[s] = null; lastCount[s] = 0
153             if (h.size < len + 1) continue
154             val c = table[key(view, len, h, h.size)] ?: continue
155             val d = outcomeToDist(view, c, h, len) ?: continue
156             lastSub[s] = d; lastCount[s] = c.sum()
157             tw += w[s]
158             for (k in 0 until K) out[k] += w[s] * d[k]
159         }
160         if (tw == 0.0) return P.uniform()
161         for (k in 0 until K) out[k] /= tw
162         // lider
163         var best = -1; var bw = -1.0
164         for (s in 0 until nSub) if (lastSub[s] != null && w[s] > bw) { bw = w[s]; best = s }
165         if (best != -1 && (leader == -1 || best / maxLen != leader / maxLen)) { leaderSince = step }
166         if (best != -1) leader = best
167         return P.normalize(out)
168     }
169 
170     override fun update(h: History) {
171         // Geri alma kaydı: adım öncesi durum (indeks tablosu kopyalanmaz, undo'da
172         // bu adımın eklediği sayaçlar geri alınır).
173         tok = Tok(w.copyOf(), step, leader, leaderSince, lastSize, lastSub.copyOf(), lastCount.copyOf())
174         step++
175         val a = h.last()
176         // Alt-uzman ağırlıkları
177         if (lastSize == h.size - 1) {
178             var tot = 0.0
179             for (s in 0 until nSub) {
180                 val d = lastSub[s] ?: continue
181                 w[s] *= exp(-eta * -ln(max(d[a], 1e-9)))
182             }
183             for (s in 0 until nSub) tot += w[s]
184             val m = tot / nSub
185             for (s in 0 until nSub) w[s] = (1 - alpha) * (w[s] / m) + alpha
186         }
187         // İndeksi güncelle: bağlam h[..size-1), sonuç h[size-1]
```

[Dosya #37/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/KalipArama2.kt (Satır 188 ve sonrası)

```kotlin
        val end = h.size - 1
        for (view in 0 until V) for (len in 1..maxLen) {
            if (end - len < 0) break
            if (view == 1 && end - len < 1) break
            val kk = key(view, len, h, end)
            val code = outcomeCode(view, h, len)
            if (code >= K) continue
            table.getOrPut(kk) { IntArray(K) }[code]++
        }
    }

    override fun info(): Map<String, String> {
        if (leader < 0) return mapOf("view" to "-", "len" to "-", "matches" to "0", "since" to "-")
        return mapOf(
            "view" to VIEW_NAMES[leader / maxLen],
            "len" to "${leader % maxLen + 1}",
            "matches" to "${lastCount[leader]}",
            "since" to "${step - leaderSince}"
        )
    }
}
```

[Dosya #38/84] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/NeuralMembers.kt

BÖLÜM 5 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 9.087 B (8.9 KB) | Satır: 205 satır SHA-256: d10466634a9624d5847db3cb4e05e389…

```kotlin
package fan.superai.engine.kotlin

import fan.superai.engine.History
import fan.superai.engine.K
import fan.superai.engine.Member
import fan.superai.engine.P
import kotlin.math.abs
import kotlin.math.exp
import kotlin.math.sqrt
import kotlin.math.tanh
import kotlin.random.Random

private fun sig(x: Double) = 1.0 / (1.0 + exp(-x))

/** Giriş vektörü: sayı one-hot (4) + tek/çift + küçük/büyük + sabit. */
private const val IN = 7
private fun input(v: Int): DoubleArray {
    val x = DoubleArray(IN); x[v] = 1.0
    x[4] = if (v % 2 == 0) 1.0 else -1.0
    x[5] = if (v >= 2) 1.0 else -1.0
    x[6] = 1.0
    return x
}

/**
 * GRU — küçük kapılı tekrarlayan ağ, son T adım üzerinde tam geri yayılım (BPTT) ile
 * her yeni sayıda çevrimiçi eğitilir.
 */
class GruMember(private val H: Int = 16, private val T: Int = 10, private val lr: Double = 0.05, seed: Int = 7) : Member {
    override val id = "gru"
    override val name = "GRU"
    private val rnd = Random(seed)
    private fun mat(r: Int, c: Int, s: Double) = Array(r) { DoubleArray(c) { (rnd.nextDouble() * 2 - 1) * s } }
    private val sx = 1.0 / sqrt(IN.toDouble()); private val sh = 1.0 / sqrt(H.toDouble())
    private val Wz = mat(H, IN, sx); private val Uz = mat(H, H, sh)
    private val Wr = mat(H, IN, sx); private val Ur = mat(H, H, sh)
    private val Wn = mat(H, IN, sx); private val Un = mat(H, H, sh)
    private val Wy = mat(K, H, sh); private val by = DoubleArray(K)

    private class Step(val x: DoubleArray, val hp: DoubleArray, val z: DoubleArray, val r: DoubleArray, val n: DoubleArray, val h: DoubleArray)

    private fun cell(x: DoubleArray, hp: DoubleArray): Step {
        val z = DoubleArray(H); val r = DoubleArray(H); val n = DoubleArray(H); val h = DoubleArray(H)
        for (i in 0 until H) {
            var az = 0.0; var ar = 0.0
            for (j in 0 until IN) { az += Wz[i][j] * x[j]; ar += Wr[i][j] * x[j] }
            for (j in 0 until H) { az += Uz[i][j] * hp[j]; ar += Ur[i][j] * hp[j] }
            z[i] = sig(az); r[i] = sig(ar)
        }
        for (i in 0 until H) {
            var an = 0.0
            for (j in 0 until IN) an += Wn[i][j] * x[j]
            for (j in 0 until H) an += Un[i][j] * (r[j] * hp[j])
            n[i] = tanh(an)
            h[i] = (1 - z[i]) * n[i] + z[i] * hp[i]
        }
        return Step(x, hp, z, r, n, h)
```

[Dosya #38/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/NeuralMembers.kt (Satır 58 ve sonrası)

```
    }

    private fun out(h: DoubleArray) = P.softmax(DoubleArray(K) { k -> var s = by[k]; for (j in 0 until H) s += Wy[k][j] * h[j]; s })

    private fun forward(h: History, end: Int): List<Step> {
        val start = maxOf(0, end - T)
        var hp = DoubleArray(H)
        val steps = ArrayList<Step>()
        for (i in start until end) { val s = cell(input(h[i]), hp); steps.add(s); hp = s.h }
        return steps
    }

    override fun predict(h: History): DoubleArray {
        if (h.size < 2) return P.uniform()
        return P.normalize(out(forward(h, h.size).last().h))
    }

    // ---- geri alma: tüm ağırlıkların kopyası (~9 KB) → BPTT adımı tam olarak geri alınır ----
    override val undoable = true
    private class Tok(val mats: List<Array<DoubleArray>>, val by: DoubleArray)
    private var tok: Tok? = null
    override fun undoToken(): Any? = tok
    private fun mats() = listOf(Wz, Uz, Wr, Ur, Wn, Un, Wy)
    private fun copyMats() = mats().map { m -> Array(m.size) { i -> m[i].copyOf() } }
    private fun restoreMats(src: List<Array<DoubleArray>>) {
        val dst = mats()
        for (i in dst.indices) for (r in dst[i].indices) src[i][r].copyInto(dst[i][r])
    }

    override fun undo(token: Any?, h: History) {
        val t = token as? Tok ?: return
        restoreMats(t.mats)
        t.by.copyInto(by)
    }

    override fun update(h: History) {
        tok = Tok(copyMats(), by.copyOf())
        val end = h.size - 1
        if (end < 2) return
        val steps = forward(h, end)
        val hT = steps.last().h
        val y = out(hT)
        val dy = DoubleArray(K) { y[it] - if (it == h.last()) 1.0 else 0.0 }
        var dh = DoubleArray(H)
        for (k in 0 until K) { for (j in 0 until H) { dh[j] += Wy[k][j] * dy[k]; Wy[k][j] -= lr * dy[k] * hT[j] }; by[k] -= lr * dy[k] }
        // BPTT (gradyanlar biriktirilir)
        val gWz = Array(H) { DoubleArray(IN) }; val gUz = Array(H) { DoubleArray(H) }
        val gWr = Array(H) { DoubleArray(IN) }; val gUr = Array(H) { DoubleArray(H) }
        val gWn = Array(H) { DoubleArray(IN) }; val gUn = Array(H) { DoubleArray(H) }
        for (t in steps.indices.reversed()) {
            val s = steps[t]
            val dhp = DoubleArray(H)
            val dan = DoubleArray(H); val daz = DoubleArray(H); val dar = DoubleArray(H)
            for (i in 0 until H) {
                val dn = dh[i] * (1 - s.z[i])
                val dz = dh[i] * (s.hp[i] - s.n[i])
                dhp[i] += dh[i] * s.z[i]
                dan[i] = dn * (1 - s.n[i] * s.n[i])
                daz[i] = dz * s.z[i] * (1 - s.z[i])
            }
            val drh = DoubleArray(H)
            for (j in 0 until H) { var acc = 0.0; for (i in 0 until H) acc += Un[i][j] * dan[i]; drh[j] = acc }
            for (j in 0 until H) { dar[j] = drh[j] * s.hp[j] * s.r[j] * (1 - s.r[j]); dhp[j] += drh[j] * s.r[j] }
            for (i in 0 until H) {
                for (j in 0 until IN) { gWn[i][j] += dan[i] * s.x[j]; gWz[i][j] += daz[i] * s.x[j]; gWr[i][j] += dar[i] * s.x[j] }
                for (j in 0 until H) {
                    gUn[i][j] += dan[i] * s.r[j] * s.hp[j]; gUz[i][j] += daz[i] * s.hp[j]; gUr[i][j] += dar[i] * s.hp[j]
                    dhp[j] += Uz[i][j] * daz[i] + Ur[i][j] * dar[i]
                }
            }
            dh = dhp
        }
        fun apply(W: Array<DoubleArray>, g: Array<DoubleArray>) {
            for (i in W.indices) for (j in W[i].indices) { val gg = g[i][j].coerceIn(-1.0, 1.0); W[i][j] -= lr * gg }
        }
        apply(Wz, gWz); apply(Uz, gUz); apply(Wr, gWr); apply(Ur, gUr); apply(Wn, gWn); apply(Un, gUn)
    }
}

/** Echo State Network — sabit rastgele rezervuar (60 nöron), çıkış katmanı çevrimiçi öğrenir. */
class EsnMember(private val N: Int = 60, private val lr: Double = 0.03, seed: Int = 11) : Member {
    override val id = "esn"
```

[Dosya #38/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/NeuralMembers.kt (Satır 140 ve sonrası)

```kotlin
    override val name = "ESN"
    private val rnd = Random(seed)
    private val Win = Array(N) { DoubleArray(IN) { (rnd.nextDouble() * 2 - 1) * 0.5 } }
    private val W = Array(N) { DoubleArray(N) { if (rnd.nextDouble() < 0.1) rnd.nextDouble() * 2 - 1 else 0.0 } }
    private val Wo = Array(K) { DoubleArray(N + 1) }
    private var state = DoubleArray(N)
    private var stateSize = 0

    init {
        // Spektral yarıçapı ~0.9'a ölçekle (güç yinelemesi)
        var v = DoubleArray(N) { 1.0 }
        var lam = 1.0
        repeat(50) {
            val nv = DoubleArray(N) { i -> var s = 0.0; for (j in 0 until N) s += W[i][j] * v[j]; s }
            lam = sqrt(nv.sumOf { it * it }) / sqrt(v.sumOf { it * it }).coerceAtLeast(1e-9)
            v = nv.map { it / (nv.maxOf { x -> abs(x) }.coerceAtLeast(1e-9)) }.toDoubleArray()
        }
        val sc = 0.9 / lam.coerceAtLeast(1e-6)
        for (i in 0 until N) for (j in 0 until N) W[i][j] *= sc
    }

    private fun advance(v: Int) {
        val x = input(v)
        val ns = DoubleArray(N)
        for (i in 0 until N) {
            var s = 0.0
            for (j in 0 until IN) s += Win[i][j] * x[j]
            for (j in 0 until N) if (W[i][j] != 0.0) s += W[i][j] * state[j]
            ns[i] = 0.7 * state[i] + 0.3 * tanh(s)
        }
        state = ns
    }

    private fun read(): DoubleArray = P.softmax(DoubleArray(K) { k -> var s = Wo[k][N]; for (j in 0 until N) s += Wo[k][j] * state[j]; s })

    override fun predict(h: History): DoubleArray {
        if (stateSize != h.size) { state = DoubleArray(N); for (i in maxOf(0, h.size - 40) until h.size) advance(h[i]); stateSize = h.size }
        return P.normalize(read())
    }

    // ---- geri alma: çıkış katmanı + rezervuar durumu (Win/W sabittir, kopyalanmaz) ----
    override val undoable = true
    private class Tok(val wo: Array<DoubleArray>, val state: DoubleArray, val stateSize: Int)
    private var tok: Tok? = null
    override fun undoToken(): Any? = tok

    override fun undo(token: Any?, h: History) {
        val t = token as? Tok ?: return
        for (k in Wo.indices) t.wo[k].copyInto(Wo[k])
        if (t.state.size == state.size) t.state.copyInto(state) else state = t.state.copyOf()
        stateSize = t.stateSize
    }

    override fun update(h: History) {
        tok = Tok(Array(K) { k -> Wo[k].copyOf() }, state.copyOf(), stateSize)
        val end = h.size - 1
        if (stateSize != end) { state = DoubleArray(N); for (i in maxOf(0, end - 40) until end) advance(h[i]) }
        val y = read()
        for (k in 0 until K) {
            val g = y[k] - if (k == h.last()) 1.0 else 0.0
            for (j in 0 until N) Wo[k][j] -= lr * g * state[j]
            Wo[k][N] -= lr * g
        }
        advance(h.last()); stateSize = h.size
    }
}
```

[Dosya #39/84] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/StatMembers.kt BÖLÜM 5 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 13.909 B (13.6 KB) | Satır: 337 satır SHA-256: d9a8f4785e7e3cfd336c52cf99af7679…

```kotlin
package fan.superai.engine.kotlin

import fan.superai.engine.History
import fan.superai.engine.K
import fan.superai.engine.Member
import fan.superai.engine.P
import kotlin.math.exp
import kotlin.math.ln
import kotlin.math.max
import kotlin.math.min

```

[Dosya #39/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/StatMembers.kt (Satır 12 ve sonrası)

```kotlin
private fun lse(a: Double, b: Double): Double {
    val m = max(a, b); return m + ln(exp(a - m) + exp(b - m))
}
private val LN_HALF = ln(0.5)

/**
 * CTW (Context Tree Weighting) — 4'lü alfabe, derinlik D.
 * Tüm bağlam uzunluklarını aynı anda Bayesçi olarak tartar; sonlu Markov düzenleri için
 * evrensel (asimptotik olarak en iyi) tahmincidir.
 */
class CtwMember(private val depth: Int = 6) : Member {
    override val id = "ctw"
    override val name = "CTW"

    private class Node { val c = IntArray(K); var n = 0; var logPe = 0.0; var logPw = 0.0; var childSum = 0.0 }
    private val nodes = HashMap<Long, Node>(1 shl 14)
    private val root = Node()

    private fun ctxSym(h: History, end: Int, j: Int): Int { val i = end - 1 - j; return if (i >= 0) h[i] else 0 }
    private fun keyOf(path: IntArray, d: Int): Long {
        var x = d.toLong() + 7
        for (j in 0 until d) x = x * 5 + path[j] + 1
        return x
    }
    private fun pathOf(h: History, end: Int) = IntArray(depth) { ctxSym(h, end, it) }
    private fun nodesOf(path: IntArray, create: Boolean): Array<Node?> = Array(depth + 1) { d ->
        if (d == 0) root else {
            val k = keyOf(path, d)
            if (create) nodes.getOrPut(k) { Node() } else nodes[k]
        }
    }
    private fun pathNodes(h: History, end: Int, create: Boolean): Array<Node?> = nodesOf(pathOf(h, end), create)

    // ---- geri alma: ağaç kopyalanmaz, yalnızca bu adımda değişen düğümler saklanır ----
    override val undoable = true
    private class Tok(val s: Int, val nodes: Array<Node?>, val keys: LongArray, val pe: DoubleArray,
                      val pw: DoubleArray, val cs: DoubleArray, val cnt: IntArray, val n: IntArray)
    private var tok: Tok? = null
    override fun undoToken(): Any? = tok

    override fun undo(token: Any?, h: History) {
        val t = token as? Tok ?: return
        for (d in 0..depth) {
            val nd = t.nodes[d] ?: continue
            nd.logPe = t.pe[d]; nd.logPw = t.pw[d]; nd.childSum = t.cs[d]
            nd.c[t.s] = t.cnt[d]; nd.n = t.n[d]
            // n == 0 ise düğüm bu adımda oluşturulmuştu → indeksten sil
            if (d > 0 && t.n[d] == 0) nodes.remove(t.keys[d])
        }
    }

    override fun predict(h: History): DoubleArray {
        val ns = pathNodes(h, h.size, false)
        val base = root.logPw
        val out = DoubleArray(K)
        for (s in 0 until K) {
            var childOld = 0.0; var childNew = 0.0
            var pw = 0.0
            for (d in depth downTo 0) {
                val nd = ns[d]
                val c = nd?.c?.get(s) ?: 0; val n = nd?.n ?: 0
                val pe = (nd?.logPe ?: 0.0) + ln((c + 0.5) / (n + 2.0))
                val oldPw = nd?.logPw ?: 0.0
                pw = if (d == depth) pe else {
                    val cs = (nd?.childSum ?: 0.0) - childOld + childNew
                    lse(LN_HALF + pe, LN_HALF + cs)
                }
                childOld = oldPw; childNew = pw
            }
            out[s] = exp(pw - base)
        }
        return P.normalize(out)
    }

    override fun update(h: History) {
        val end = h.size - 1
        val s = h.last()
        val path = pathOf(h, end)
        val ns = nodesOf(path, true)
        // adım öncesi düğüm değerleri (geri alma için)
        val t = Tok(s, ns, LongArray(depth + 1) { d -> if (d == 0) 0L else keyOf(path, d) },
            DoubleArray(depth + 1), DoubleArray(depth + 1), DoubleArray(depth + 1),
            IntArray(depth + 1), IntArray(depth + 1))
        for (d in 0..depth) {
            val nd = ns[d] ?: continue
```

[Dosya #39/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/StatMembers.kt (Satır 97 ve sonrası)

```
97              t.pe[d] = nd.logPe; t.pw[d] = nd.logPw; t.cs[d] = nd.childSum
98              t.cnt[d] = nd.c[s]; t.n[d] = nd.n
99          }
100         tok = t
101         var childOld = 0.0; var childNew = 0.0
102         for (d in depth downTo 0) {
103             val nd = ns[d]!!
104             nd.logPe += ln((nd.c[s] + 0.5) / (nd.n + 2.0))
105             nd.c[s]++; nd.n++
106             val oldPw = nd.logPw
107             if (d == depth) nd.logPw = nd.logPe else {
108                 nd.childSum += childNew - childOld
109                 nd.logPw = lse(LN_HALF + nd.logPe, LN_HALF + nd.childSum)
110             }
111             childOld = oldPw; childNew = nd.logPw
112         }
113     }
114 }
115
116 /** PPM-C (dışlamalı) — maksimum derece 5. */
117 class PpmMember(private val maxOrder: Int = 5) : Member {
118     override val id = "ppm"
119     override val name = "PPM"
120     private val table = HashMap<Long, IntArray>()
121
122     private fun key(h: History, end: Int, o: Int): Long {
123         var x = o.toLong() + 11
124         for (j in end - o until end) x = x * 5 + h[j] + 1
125         return x
126     }
127
128     override fun predict(h: History): DoubleArray {
129         val p = DoubleArray(K)
130         val excl = BooleanArray(K)
131         var mass = 1.0
132         for (o in min(maxOrder, h.size) downTo 0) {
133             val c = table[key(h, h.size, o)] ?: continue
134             var n = 0; var q = 0
135             for (k in 0 until K) if (!excl[k] && c[k] > 0) { n += c[k]; q++ }
136             if (n == 0) continue
137             for (k in 0 until K) if (!excl[k] && c[k] > 0) p[k] += mass * c[k] / (n + q).toDouble()
138             mass *= q / (n + q).toDouble()
139             for (k in 0 until K) if (c[k] > 0) excl[k] = true
140         }
141         val rest = (0 until K).count { !excl[it] }
142         if (rest > 0) for (k in 0 until K) if (!excl[k]) p[k] += mass / rest
143         else { val s = p.sum(); for (k in 0 until K) p[k] /= s }
144         return P.normalize(p)
145     }
146
147     override fun update(h: History) {
148         val end = h.size - 1
149         val s = h.last()
150         val m = min(maxOrder, end)
151         // geri alma kaydı: bu adımda dokunulan anahtarlar ve sayaçların adım öncesi değeri
152         val keys = LongArray(m + 1); val pre = IntArray(m + 1); val created = BooleanArray(m + 1)
153         for (o in 0..m) {
154             val k = key(h, end, o)
155             keys[o] = k
156             var c = table[k]
157             if (c == null) { c = IntArray(K); table[k] = c; created[o] = true }
158             pre[o] = c[s]
159             c[s]++
160         }
161         tok = Tok(keys, pre, created, s)
162     }
163
164     // ---- geri alma: tablo kopyalanmaz, dokunulan hücreler eski değerine döner ----
165     override val undoable = true
166     private class Tok(val keys: LongArray, val pre: IntArray, val created: BooleanArray, val s: Int)
167     private var tok: Tok? = null
168     override fun undoToken(): Any? = tok
169
170     override fun undo(token: Any?, h: History) {
171         val t = token as? Tok ?: return
172         for (o in t.keys.indices) {
173             val k = t.keys[o]
174             if (t.created[o]) { table.remove(k); continue }   // bu adımda oluşmuş anahtar
175             val c = table[k] ?: continue
176             c[t.s] = t.pre[o]
177         }
178     }
179 }
180
181 /**
```

[Dosya #39/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/StatMembers.kt (Satır 182 ve sonrası)

```kotlin
 * Frekans / Aralık: "Bir sayı kaç turdur gelmedi" (hazard) ile unutan frekansı birleştirir.
 * Tablolar veriden öğrenilir; "gecikti gelir" etkisi varsa yakalar, yoksa tarafsız kalır.
 */
class FreqGapMember : Member {
    override val id = "freqgap"
    override val name = "Frekans / Aralık"
    private val bucketsOf = intArrayOf(0, 1, 2, 3, 4, 4, 5, 5, 5, 6, 6, 6, 6)
    private fun bucket(g: Int) = if (g < bucketsOf.size) bucketsOf[g] else 7
    private val hits = DoubleArray(8); private val trials = DoubleArray(8)
    private val freq = DoubleArray(K) { 1.0 }
    private val lastSeen = IntArray(K) { -1 }
    private val lambda = 0.97

    private fun gap(v: Int, size: Int) = if (lastSeen[v] < 0) 99 else size - 1 - lastSeen[v]

    override fun predict(h: History): DoubleArray {
        val fs = freq.sum()
        return P.normalize(DoubleArray(K) { v ->
            val b = bucket(gap(v, h.size))
            val hz = (hits[b] + 1.0) / (trials[b] + 4.0) * 4.0
            val fr = (freq[v] / fs) * 4.0
            hz * Math.pow(fr, 0.5)
        })
    }

    override fun update(h: History) {
        tok = Tok(hits.copyOf(), trials.copyOf(), freq.copyOf(), lastSeen.copyOf())
        val a = h.last(); val size = h.size - 1
        for (v in 0 until K) {
            val b = bucket(gap(v, size))
            trials[b] += 1.0; if (v == a) hits[b] += 1.0
        }
        for (v in 0 until K) freq[v] = freq[v] * lambda + if (v == a) 1.0 else 0.0
        lastSeen[a] = size
    }

    // ---- geri alma: tüm durum küçük diziler, tam kopya yeterli ----
    override val undoable = true
    private class Tok(val hits: DoubleArray, val trials: DoubleArray, val freq: DoubleArray, val lastSeen: IntArray)
    private var tok: Tok? = null
    override fun undoToken(): Any? = tok

    override fun undo(token: Any?, h: History) {
        val t = token as? Tok ?: return
        t.hits.copyInto(hits); t.trials.copyInto(trials); t.freq.copyInto(freq); t.lastSeen.copyInto(lastSeen)
    }
}

/** Seri / Dalga: aynı sayı, tek/çift ve küçük/büyük serilerinin devam/kırılma olasılığını öğrenir. */
class StreakWaveMember : Member {
    override val id = "streak"
    override val name = "Seri / Dalga"
    private fun par(v: Int) = v % 2
    private fun big(v: Int) = if (v >= 2) 1 else 0
    private val rep = Array(6) { doubleArrayOf(1.0, 4.0) }       // [hit, total]
    private val parC = Array(36) { doubleArrayOf(1.0, 2.0) }
    private val bigC = Array(36) { doubleArrayOf(1.0, 2.0) }
    private fun b(x: Int) = min(x, 5)

    private data class St(val run: Int, val pr: Int, val pa: Int, val br: Int, val ba: Int)
    private fun state(h: History, end: Int): St {
        fun runLen(f: (Int) -> Int): Int { var r = 1; var i = end - 2; while (i >= 0 && f(h[i]) == f(h[end - 1])) { r++; i-- }; return r }
        fun altLen(f: (Int) -> Int): Int { var r = 0; var i = end - 1; while (i >= 1 && f(h[i]) != f(h[i - 1])) { r++; i-- }; return r }
        return St(runLen { it }, runLen(::par), altLen(::par), runLen(::big), altLen(::big))
    }

    override fun predict(h: History): DoubleArray {
        if (h.size < 2) return P.uniform()
        val s = state(h, h.size); val last = h.last()
        val r = rep[b(s.run)].let { it[0] / it[1] }
        val pc = parC[b(s.pr) * 6 + b(s.pa)].let { it[0] / it[1] }
        val bc = bigC[b(s.br) * 6 + b(s.ba)].let { it[0] / it[1] }
        return P.normalize(DoubleArray(K) { v ->
            (if (v == last) r else (1 - r) / 3) *
                (if (par(v) == par(last)) pc else 1 - pc) *
                (if (big(v) == big(last)) bc else 1 - bc)
        })
    }

    override fun update(h: History) {
        tok = Tok(copy2(rep), copy2(parC), copy2(bigC))
        val end = h.size - 1
        if (end < 2) return
```

[Dosya #39/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/engine/kotlin/StatMembers.kt (Satır 265 ve sonrası)

```
265         val s = state(h, end); val a = h.last(); val last = h[end - 1]
266         rep[b(s.run)][1]++; if (a == last) rep[b(s.run)][0]++
267         parC[b(s.pr) * 6 + b(s.pa)].let { it[1]++; if (par(a) == par(last)) it[0]++ }
268         bigC[b(s.br) * 6 + b(s.ba)].let { it[1]++; if (big(a) == big(last)) it[0]++ }
269     }
270
271     // ---- geri alma: üç küçük tablonun tam kopyası ----
272     override val undoable = true
273     private class Tok(val rep: Array<DoubleArray>, val parC: Array<DoubleArray>, val bigC: Array<DoubleArray>)
274     private var tok: Tok? = null
275     override fun undoToken(): Any? = tok
276     private fun copy2(a: Array<DoubleArray>) = Array(a.size) { i -> a[i].copyOf() }
277
278     override fun undo(token: Any?, h: History) {
279         val t = token as? Tok ?: return
280         for (i in rep.indices) t.rep[i].copyInto(rep[i])
281         for (i in parC.indices) t.parC[i].copyInto(parC[i])
282         for (i in bigC.indices) t.bigC[i].copyInto(bigC[i])
283     }
284 }
285
286 /**
287  * Rejim: son 30 kayıttaki tekrar oranı ve tek/çift alternasyonuna göre 9 rejimden birini seçer,
288  * her rejim için ayrı geçiş tablosu tutar.
289  */
290 class RegimeMember(private val win: Int = 30) : Member {
291     override val id = "regime"
292     override val name = "Rejim"
293     private val tables = Array(9) { Array(K) { DoubleArray(K) { 0.5 } } }
294     private var current = 0
295     private val names = arrayOf("sakin", "dalgalı", "zikzak", "karışık", "dengeli", "hareketli", "tekrarcı", "tekrar+dalga", "te
    ↳ krar+zikzak")
296
297     private fun regime(h: History, end: Int): Int {
298         val s = max(1, end - win)
299         if (end - s < 5) return 4
300         var rep = 0; var alt = 0; val n = end - s
301         for (i in s until end) { if (h[i] == h[i - 1]) rep++; if (h[i] % 2 != h[i - 1] % 2) alt++ }
302         val rr = rep.toDouble() / n; val ar = alt.toDouble() / n
303         val rb = when { rr < 0.17 -> 0; rr < 0.33 -> 1; else -> 2 }
304         val ab = when { ar < 0.4 -> 0; ar < 0.6 -> 1; else -> 2 }
305         return rb * 3 + ab
306     }
307
308     override fun predict(h: History): DoubleArray {
309         if (h.size < 2) return P.uniform()
310         current = regime(h, h.size)
311         return P.normalize(tables[current][h.last()].copyOf())
312     }
313
314     override fun update(h: History) {
315         tok = Tok(Array(tables.size) { r -> Array(tables[r].size) { c -> tables[r][c].copyOf() } }, current)
316         val end = h.size - 1
317         if (end < 1) return
318         val r = regime(h, end)
319         val row = tables[r][h[end - 1]]
320         for (k in 0 until K) row[k] *= 0.995
321         row[h.last()] += 1.0
322     }
323
324     // ---- geri alma: 9 × 4 × 4 geçiş tablosu + aktif rejim ----
325     override val undoable = true
326     private class Tok(val tables: Array<Array<DoubleArray>>, val current: Int)
327     private var tok: Tok? = null
328     override fun undoToken(): Any? = tok
329
330     override fun undo(token: Any?, h: History) {
331         val t = token as? Tok ?: return
332         for (r in tables.indices) for (c in tables[r].indices) t.tables[r][c].copyInto(tables[r][c])
333         current = t.current
334     }
335
336     override fun info() = mapOf("regime" to names[current])
337 }
```

BÖLÜM 6: Kotlin Kaynak Kodları — v1.3/v1.4 Meta-Ensemble, Beyin, Replay ve Room DB 16 Dosya · 2.806 Satır · 133.6 KB

Olasılık seviyesinde meta-ensemble (Meta), v1.4 konformal otomatik tek/çift kararını yöneten FanBrain (Brain), yan tahmin modelleri (SideModels), kronolojik sızıntısız Replay (Replay), açıklamalar (Explain) ve Room/SQLite kalıcı hafıza katmanı (db/*).

[Dosya #40/84] Proje Yolu: app/src/main/java/fan/superai/v13/Domain.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 8.972 B (8.8 KB) | Satır: 210 satır SHA-256: 90b5405ad1cb43b0ff028b7356bf0709…

```kotlin
package fan.superai.v13

/**
 * FAN SUPER v1.3 — ortak alan modeli.
 *
 * Üç analiz seviyesi aynı ham veriden beslenir:
 *   NUMBER : rakam (alfabe boyutu kadar sınıf; bu veri setinde 1..4)
 *   BS     : Büyük/Küçük   (indeks 0 = KÜÇÜK, 1 = BÜYÜK)
 *   OE     : Tek/Çift      (indeks 0 = ÇİFT,  1 = TEK)
 *   COMB   : birleşik yan  (indeks bs*2+oe: 0 SMALL_EVEN, 1 SMALL_ODD, 2 BIG_EVEN, 3 BIG_ODD)
 */
object V13 {
    const val ENSEMBLE_VERSION = 13
    const val STATE_VERSION = 1
    const val REGIMES = 3
    val REGIME_NAMES = arrayOf("REGIME_A", "REGIME_B", "REGIME_C")
}

enum class Axis { NUMBER, BS, OE, COMB }

enum class Group(val tr: String) { KOTLIN("Kotlin"), PYTHON("Python") }

enum class Mode { LIVE, REPLAY }

/**
 * Rakam alfabesi. Varsayılan 1..4 (mevcut v1.2 veri alanı). Büyük = üst yarı
 * (4 sınıfta 3,4; 10 sınıfta 5..9), Tek = rakam değeri tek.
 */
class Alphabet(val min: Int = 1, val size: Int = 4) {
    init { require(size >= 2) }
    val max: Int get() = min + size - 1
    fun valid(number: Int) = number in min..max
    fun idx(number: Int) = number - min
    fun number(idx: Int) = min + idx
    fun bsOf(number: Int): Int = if (idx(number) >= size / 2) 1 else 0
    fun oeOf(number: Int): Int = if (number % 2 != 0) 1 else 0
    fun combOf(number: Int): Int = bsOf(number) * 2 + oeOf(number)
    fun k(axis: Axis): Int = when (axis) { Axis.NUMBER -> size; Axis.BS, Axis.OE -> 2; Axis.COMB -> 4 }
    /** Rakam sınıfı için eksen sınıfı (yalnızca GERÇEK sonucu eksenlere ayırmak için kullanılır). */
    fun actual(axis: Axis, number: Int): Int = when (axis) {
        Axis.NUMBER -> idx(number); Axis.BS -> bsOf(number); Axis.OE -> oeOf(number); Axis.COMB -> combOf(number)
    }
}

enum class BigSmall(val tr: String, val index: Int) {
    BIG("BÜYÜK", 1), SMALL("KÜÇÜK", 0);
    companion object { fun fromIndex(i: Int) = if (i == 1) BIG else SMALL }
}

enum class OddEven(val tr: String, val index: Int) {
    ODD("TEK", 1), EVEN("ÇİFT", 0);
    companion object { fun fromIndex(i: Int) = if (i == 1) ODD else EVEN }
}

enum class CombinedSide(val bigSmall: BigSmall, val oddEven: OddEven) {
    BIG_ODD(BigSmall.BIG, OddEven.ODD), BIG_EVEN(BigSmall.BIG, OddEven.EVEN),
    SMALL_ODD(BigSmall.SMALL, OddEven.ODD), SMALL_EVEN(BigSmall.SMALL, OddEven.EVEN);

    val index: Int get() = bigSmall.index * 2 + oddEven.index
    val display: String get() = bigSmall.tr + " + " + oddEven.tr

    companion object {
        fun of(bs: BigSmall, oe: OddEven): CombinedSide = entries.first { it.bigSmall == bs && it.oddEven == oe }
        fun fromIndex(i: Int): CombinedSide = of(BigSmall.fromIndex(i / 2), OddEven.fromIndex(i % 2))
    }
}

/** Ham fan sonucu. */
data class FanRecord(
    val recordId: Long, val timestamp: Long, val number: Int,
    val bigSmall: BigSmall, val oddEven: OddEven, val combinedSide: CombinedSide
) {
    companion object {
        fun of(recordId: Long, timestamp: Long, number: Int, a: Alphabet = Alphabet()): FanRecord {
            val bs = BigSmall.fromIndex(a.bsOf(number)); val oe = OddEven.fromIndex(a.oeOf(number))
            return FanRecord(recordId, timestamp, number, bs, oe, CombinedSide.of(bs, oe))
```

[Dosya #40/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Domain.kt (Satır 77 ve sonrası)

```
        }
    }
}

/** Ortak rakam dağılımı: Kotlin ve Python çıktıları aynı biçimde Meta Ensemble'a girer. */
class PredictionDistribution(
    val modelId: String, val classes: IntArray, val probabilities: DoubleArray,
    val confidence: Double, val entropy: Double, val timestamp: Long
) {
    companion object {
        fun of(modelId: String, classes: IntArray, p: DoubleArray, ts: Long) =
            PredictionDistribution(modelId, classes, p, p.max(), Mx.entropy(p), ts)
    }
}

/** Yan dağılımı: BS (KÜÇÜK,BÜYÜK), OE (ÇİFT,TEK) ve birleşik 4 sınıf. */
class SideDistribution(
    val modelId: String, val bigSmall: DoubleArray, val oddEven: DoubleArray, val combined: DoubleArray,
    val confidence: Double, val entropy: Double, val timestamp: Long
)

/** Bir temel modelin (Kotlin/Python, rakam ya da yan) tek adımlık çıktısı. */
class ModelOutput(
    val id: String, val name: String, val group: Group,
    val number: DoubleArray? = null, val bs: DoubleArray? = null,
    val oe: DoubleArray? = null, val comb: DoubleArray? = null
) {
    fun dist(axis: Axis): DoubleArray? = when (axis) {
        Axis.NUMBER -> number; Axis.BS -> bs; Axis.OE -> oe; Axis.COMB -> comb
    }
}

/** Bir eksendeki tahmin anı girdisi: modeller, dağılımları ve KULLANILAN ağırlıklar. */
class AxisInput(
    val ids: Array<String>, val names: Array<String>, val groups: Array<Group>,
    val dists: Array<DoubleArray>, val weights: DoubleArray, val tau: Double
) {
    val size: Int get() = ids.size
}

/**
 * Tahmin anında bilinen her şey. Kilitle birlikte saklanır; karşı-olgusal analiz bunu kullanır.
 * [pairMode]: 0 otomatik (konformal), 1 her zaman çift, 2 her zaman tek — v1.4'te kilitli
 * tahminin kaç rakam gösterdiğini belirleyen ayar; kilitle saklanır ki geri yüklemede aynı
 * gösterim yeniden üretilsin.
 */
class PredictionContext(
    val axes: Array<AxisInput>, val regime: Int, val blendProduct: Double, val pairMode: Int = 0
) {
    fun axis(a: Axis) = axes[a.ordinal]
}

data class ModelContribution(
    val axis: Axis, val modelId: String, val name: String, val group: Group,
    val weight: Double, val favors: Int, val probOfFinal: Double, val share: Double
)

data class PredictionExplanation(
    val numberPositive: List<String>, val numberNegative: List<String>,
    val sidePositive: List<String>, val sideNegative: List<String>,
    val sideDetail: List<String>
) {
    fun toText(): String = buildString {
        append("RAKAM\n"); numberPositive.forEach { append("+ $it\n") }; numberNegative.forEach { append("- $it\n") }
        append("YAN\n"); sidePositive.forEach { append("+ $it\n") }; sideNegative.forEach { append("- $it\n") }
        sideDetail.forEach { append("· $it\n") }
    }
}

/**
 * Sistemin dışarı verdiği TEK nihai sonuç. Kotlin/Python ayrıntıları metadata altındadır.
 *
 * v1.4 ek alanları (kilit geri yüklenirken [FanBrain] tarafından yeniden üretilir, ayrıca
 * saklanmaz):
 *  - [numberSecondary]: çift (2 rakam) kararında ikinci aday; null → gösterim tek rakam.
 *  - [kotlinNumberProbs] / [pythonNumberProbs]: meclislerin rakam eksenindeki grup karışımı
 *    (overlay'in K ve Py satırları). Python yoksa null → "--".
 */
class FinalPrediction(
    val number: Int,
    val numberDistribution: PredictionDistribution,
    val bigSmall: BigSmall,
    val oddEven: OddEven,
    val sideLabel: String,
    val sideDistribution: SideDistribution,
```

[Dosya #40/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Domain.kt (Satır 162 ve sonrası)

```
    val confidence: Double,
    val sideConfidence: Double,
    val entropy: Double,
    val regime: String,
    val ensembleVersion: Int,
    val predictionTimestamp: Long,
    val predictionLockId: String,
    val predictionSequence: Int,
    val lastKnownRecordId: Long,
    val lockHash: Long,
    val contributions: List<ModelContribution>,
    val explanation: PredictionExplanation,
    val numberSecondary: Int? = null,
    val kotlinNumberProbs: DoubleArray? = null,
    val pythonNumberProbs: DoubleArray? = null
) {
    val side: CombinedSide get() = CombinedSide.of(bigSmall, oddEven)
    val sideDisplay: String get() = side.display
    /** Çift kararda "1/2", tek kararda "1" — overlay ve ana ekran rakam satırı. */
    val numberLabel: String get() = if (numberSecondary == null) "$number" else "$number/$numberSecondary"
    /** Kısa yan gösterimi: "B•T" / "K•Ç" gibi (v1.4 overlay yan satırı). */
    val sideShort: String get() = (if (bigSmall == BigSmall.BIG) "B" else "K") + "•" + (if (oddEven == OddEven.ODD) "T" else "Ç"
)
}

/** Değerlendirme sonucu: tahmin kaydını DEĞİŞTİRMEZ, ayrı bir kayıttır. */
class EvaluationResult(
    val sequence: Int, val recordId: Long, val actualTimestamp: Long, val actualNumber: Int,
    val predictedNumber: Int, val predictedSide: CombinedSide,
    val numberHit: Boolean, val top2Hit: Boolean, val bigSmallHit: Boolean, val oddEvenHit: Boolean, val sideHit: Boolean,
    val numberLogLoss: Double, val sideLogLoss: Double, val regime: String, val lockId: String,
    val evaluated: Boolean
)

class FanException(val code: String, message: String) : RuntimeException("$code: $message")
class LeakageViolation(message: String) : RuntimeException("${ErrorCodes.LEAK_FUTURE}: $message")

object ErrorCodes {
    const val LEAK_FUTURE = "FAN-E-LEAK-001"
    const val LOCK_DUPLICATE = "FAN-E-LOCK-001"
    const val LOCK_TAMPERED = "FAN-E-LOCK-002"
    const val LOCK_STALE = "FAN-E-LOCK-003"
    const val SEQUENCE = "FAN-E-SEQ-001"
    const val STATE_LOAD = "FAN-E-STATE-001"
    const val STATE_SAVE = "FAN-E-STATE-002"
    const val PYTHON = "FAN-E-PY-001"
    const val DB = "FAN-E-DB-001"
    const val REPLAY = "FAN-E-REPLAY-001"
    const val VALIDATE = "FAN-E-REC-001"
}
```

[Dosya #41/84] Proje Yolu: app/src/main/java/fan/superai/v13/Mathx.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 2.517 B (2.5 KB) | Satır: 83 satır SHA-256: 1349991f62104f6f4a16884e8667ad18…

```
package fan.superai.v13

import kotlin.math.exp
import kotlin.math.ln
import kotlin.math.max
import kotlin.math.sqrt

/** Küçük sayısal yardımcılar (saf Kotlin). */
object Mx {
    const val FLOOR = 1e-9

    fun entropy(p: DoubleArray): Double {
        var s = 0.0
        for (q in p) { val x = max(q, 1e-12); s -= x * ln(x) }
        return s
    }

    fun normEntropy(p: DoubleArray): Double = if (p.size < 2) 0.0 else entropy(p) / ln(p.size.toDouble())

    fun logLoss(p: DoubleArray, a: Int): Double = -ln(max(p[a], FLOOR))

    fun brier(p: DoubleArray, a: Int): Double {
        var s = 0.0
        for (i in p.indices) { val y = if (i == a) 1.0 else 0.0; s += (p[i] - y) * (p[i] - y) }
        return s
    }

    fun argmax(p: DoubleArray): Int {
        var b = 0
```

[Dosya #41/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Mathx.kt (Satır 30 ve sonrası)

```
        for (i in 1 until p.size) if (p[i] > p[b]) b = i
        return b
    }

    /** İkinci en yüksek sınıf (eşitlikte düşük indeks önce). */
    fun argmaxInt(c: IntArray): Int {
        var b = 0
        for (i in 1 until c.size) if (c[i] > c[b]) b = i
        return b
    }

    fun top2(p: DoubleArray): IntArray {
        val o = p.indices.sortedWith(compareByDescending<Int> { p[it] }.thenBy { it })
        return intArrayOf(o[0], o[1])
    }

    fun normalize(p: DoubleArray, floor: Double = 1e-4): DoubleArray {
        var s = 0.0
        for (i in p.indices) { if (p[i].isNaN() || p[i] < floor) p[i] = floor; s += p[i] }
        for (i in p.indices) p[i] /= s
        return p
    }

    fun uniform(k: Int) = DoubleArray(k) { 1.0 / k }

    fun softmax(z: DoubleArray): DoubleArray {
        var m = z[0]; for (v in z) if (v > m) m = v
        val e = DoubleArray(z.size) { exp(z[it] - m) }
        val s = e.sum()
        for (i in e.indices) e[i] /= s
        return e
    }

    fun jsd(a: DoubleArray, b: DoubleArray): Double {
        var s = 0.0
        for (i in a.indices) {
            val x = max(a[i], 1e-12); val y = max(b[i], 1e-12); val m = 0.5 * (x + y)
            s += 0.5 * x * ln(x / m) + 0.5 * y * ln(y / m)
        }
        return s
    }

    fun pow(base: Int, e: Int): Int { var r = 1; repeat(e) { r *= base }; return r }

    fun clamp(x: Double, lo: Double, hi: Double) = if (x < lo) lo else if (x > hi) hi else x

    fun mean(xs: DoubleArray): Double = if (xs.isEmpty()) 0.0 else xs.sum() / xs.size

    fun sd(xs: DoubleArray): Double {
        if (xs.size < 2) return 0.0
        val m = mean(xs)
        return sqrt(xs.sumOf { (it - m) * (it - m) } / (xs.size - 1))
    }
}
```

[Dosya #42/84] Proje Yolu: app/src/main/java/fan/superai/v13/Memory.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 7.471 B (7.3 KB) | Satır: 180 satır SHA-256: 828a4c1df758ddbd012922e7ec0e04d6…

```
package fan.superai.v13

import kotlin.math.abs

/**
 * Yan/rakam dizi hafızası. YALNIZCA gerçek sonuç öğrenildikten sonra [append] ile büyür; bu yüzden
 * tahmin anında gelecek bilgi hafızada fiziksel olarak bulunmaz (leakage guard'ın temel taşı).
 *
 * Tüm özellikler artımlı tutulur: sayaçlar, geçiş matrisleri, seri uzunlukları ve son [CAP] sembol.
 */
class SequenceMemory(val alphabet: Alphabet) {
    companion object { const val CAP = 64 }

    var n = 0; private set
    var lastRecordId = 0L; private set
    var lastTimestamp = 0L; private set

    private val ring = Array(4) { IntArray(CAP) }
    private val counts = Array(4) { DoubleArray(alphabet.k(Axis.values()[it])) }
    private val trans = Array(4) { DoubleArray(alphabet.k(Axis.values()[it]) * alphabet.k(Axis.values()[it])) }
    private val runLen = IntArray(4)

    fun k(axis: Axis) = alphabet.k(axis)

    /** Son sembolden [back] önceki sembol (back=1 → en son). Yetmiyorsa -1. */
```

[Dosya #42/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Memory.kt (Satır 26 ve sonrası)

```
    fun sym(axis: Axis, back: Int = 1): Int =
        if (back < 1 || back > n || back > CAP) -1 else ring[axis.ordinal][(n - back) % CAP]

    fun counts(axis: Axis): DoubleArray = counts[axis.ordinal]
    fun transition(axis: Axis): DoubleArray = trans[axis.ordinal]
    fun run(axis: Axis): Int = runLen[axis.ordinal]

    /** Son [w] sembolün sınıf sayıları. */
    fun windowCounts(axis: Axis, w: Int): DoubleArray {
        val c = DoubleArray(k(axis))
        val m = minOf(w, n, CAP)
        for (b in 1..m) c[sym(axis, b)]++
        return c
    }

    /** Son [order] sembolün tabana göre indeksi; yeterli geçmiş yoksa -1. */
    fun ctx(axis: Axis, order: Int): Int {
        if (order <= 0) return 0
        if (n < order || order > CAP) return -1
        var idx = 0; val kk = k(axis)
        for (b in order downTo 1) idx = idx * kk + sym(axis, b)
        return idx
    }

    /** Geçiş olasılığı P(sonraki=j | son=i) (KT yumuşatmalı). */
    fun transitionProb(axis: Axis, from: Int): DoubleArray {
        val kk = k(axis); val t = trans[axis.ordinal]
        var tot = 0.0; for (j in 0 until kk) tot += t[from * kk + j]
        return DoubleArray(kk) { (t[from * kk + it] + 0.5) / (tot + 0.5 * kk) }
    }

    fun append(rec: FanRecord) {
        val syms = intArrayOf(
            alphabet.idx(rec.number), rec.bigSmall.index, rec.oddEven.index, rec.combinedSide.index
        )
        for (a in 0 until 4) {
            val kk = k(Axis.values()[a])
            val prev = if (n > 0) ring[a][(n - 1) % CAP] else -1
            if (prev >= 0) trans[a][prev * kk + syms[a]]++
            runLen[a] = if (prev == syms[a]) runLen[a] + 1 else 1
            counts[a][syms[a]]++
            ring[a][n % CAP] = syms[a]
        }
        n++
        lastRecordId = rec.recordId; lastTimestamp = rec.timestamp
    }

    fun write(o: Out) {
        o.i(n); o.l(lastRecordId); o.l(lastTimestamp)
        for (a in 0 until 4) { o.ia(ring[a]); o.da(counts[a]); o.da(trans[a]) }
        o.ia(runLen)
    }

    fun read(i: In) {
        n = i.i(); lastRecordId = i.l(); lastTimestamp = i.l()
        for (a in 0 until 4) {
            val r = i.ia(); if (r.size != CAP) throw FanException(ErrorCodes.STATE_LOAD, "ring")
            r.copyInto(ring[a]); i.fill(counts[a]); i.fill(trans[a])
        }
        val rl = i.ia(); rl.copyInto(runLen)
    }
}

/**
 * Regime motoru: verinin davranışındaki değişimi izler.
 * Özellikler (son 30 sembol): ortalama dönüş (flip) oranı ve Büyük/Küçük + Tek/Çift dengesizliği.
 * Üç dahili merkez (REGIME_A/B/C) çevrimiçi k-means ile yavaşça uyarlanır; geçiş için histerezis vardır.
 * Özellikler yalnızca öğrenilmiş geçmişten hesaplanır → leakage yok.
 */
class RegimeEngine {
    companion object {
        const val WINDOW = 30
        const val MIN_N = 20
        const val LR = 0.01
        const val SWITCH_AFTER = 4
        const val MARGIN = 0.002
    }

    val R = V13.REGIMES
    var current = 0; private set
    var duration = 0; private set            // mevcut rejimde geçen adım
    var changes = 0; private set
    private val centroids = doubleArrayOf(0.38, 0.12, 0.50, 0.10, 0.62, 0.12)
    private var pending = -1
    private var pendingCount = 0
```

[Dosya #42/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Memory.kt (Satır 111 ve sonrası)

```
    val transitions = DoubleArray(R * R)
    val steps = IntArray(R)                  // rejim başına adım sayısı
    val history = ArrayList<IntArray>()      // [rejim, başlangıç sırası, süre] (son 50)
    private var startedAt = 0

    // Rejim başına performans: [n, sayı isabeti, yan isabeti (ikisi birden), top2 isabeti]
    val perf = Array(R) { DoubleArray(4) }

    fun name(r: Int = current) = V13.REGIME_NAMES[r]

    fun features(mem: SequenceMemory): DoubleArray? {
        if (mem.n < MIN_N) return null
        val w = minOf(WINDOW, mem.n)
        fun flip(axis: Axis): Double {
            var f = 0
            for (b in 1 until w) if (mem.sym(axis, b) != mem.sym(axis, b + 1)) f++
            return f.toDouble() / (w - 1)
        }
        val bc = mem.windowCounts(Axis.BS, w); val oc = mem.windowCounts(Axis.OE, w)
        val imb = abs(bc[1] / w - 0.5) + abs(oc[1] / w - 0.5)
        return doubleArrayOf((flip(Axis.BS) + flip(Axis.OE)) / 2.0, imb)
    }

    private fun dist(x: DoubleArray, r: Int): Double {
        val a = x[0] - centroids[r * 2]; val b = x[1] - centroids[r * 2 + 1]
        return a * a + b * b
    }

    /** Hafıza GÜNCELLENDİKTEN sonra çağrılır; bir sonraki tahmin için rejimi belirler. Değiştiyse true. */
    fun update(mem: SequenceMemory): Boolean {
        val x = features(mem) ?: run { duration++; steps[current]++; return false }
        var best = 0; var bd = dist(x, 0)
        for (r in 1 until R) { val d = dist(x, r); if (d < bd) { bd = d; best = r } }
        var changed = false
        if (best == current) { pending = -1; pendingCount = 0 }
        else if (dist(x, current) - bd > MARGIN) {
            if (pending == best) pendingCount++ else { pending = best; pendingCount = 1 }
            if (pendingCount >= SWITCH_AFTER) {
                transitions[current * R + best]++
                history.add(intArrayOf(current, startedAt, duration))
                while (history.size > 50) history.removeAt(0)
                current = best; duration = 0; startedAt = mem.n; changes++
                pending = -1; pendingCount = 0; changed = true
            }
        } else { pending = -1; pendingCount = 0 }
        centroids[best * 2] += LR * (x[0] - centroids[best * 2])
        centroids[best * 2 + 1] += LR * (x[1] - centroids[best * 2 + 1])
        duration++; steps[current]++
        return changed
    }

    fun record(regime: Int, numberHit: Boolean, sideHit: Boolean, top2Hit: Boolean) {
        val p = perf[regime]
        p[0]++; if (numberHit) p[1]++; if (sideHit) p[2]++; if (top2Hit) p[3]++
    }

    fun write(o: Out) {
        o.i(current); o.i(duration); o.i(changes); o.da(centroids); o.i(pending); o.i(pendingCount)
        o.da(transitions); o.ia(steps); o.i(startedAt)
        o.i(history.size); history.forEach { o.ia(it) }
        for (r in 0 until R) o.da(perf[r])
    }

    fun read(i: In) {
        current = i.i(); duration = i.i(); changes = i.i(); i.fill(centroids); pending = i.i(); pendingCount = i.i()
        i.fill(transitions); i.ia().copyInto(steps); startedAt = i.i()
        history.clear(); repeat(i.i()) { history.add(i.ia()) }
        for (r in 0 until R) i.fill(perf[r])
    }
}
```

[Dosya #43/84] Proje Yolu: app/src/main/java/fan/superai/v13/SideModels.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 8.698 B (8.5 KB) | Satır: 203 satır SHA-256: 3f3bca487d84aaeb9e423ed9b9f927a0…

```
package fan.superai.v13

import kotlin.math.pow

/**
 * Kotlin YAN analiz motoru. Yan tahmini rakamdan türetilmez: her model kendi ekseninin
 * (Büyük/Küçük, Tek/Çift, birleşik) dizisini öğrenir.
 *
 * Her model bir eksendeki k sınıf için olasılık dağılımı üretir. predict() yalnızca [SequenceMemory]
```

[Dosya #43/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/SideModels.kt (Satır 10 ve sonrası)

```
10  * içindeki (öğrenilmiş) geçmişi görür; learn() hafıza GÜNCELLENMEDEN önce çağrılır, böylece öğrenilen
11  * bağlam tahmin anındaki bağlamla birebir aynıdır.
12  */
13 class SideCtx(val mem: SequenceMemory, val regime: Int)
14
15 abstract class CatModel(val id: String, val name: String, val axis: Axis, val k: Int) {
16     abstract fun predict(c: SideCtx): DoubleArray
17     open fun learn(c: SideCtx, actual: Int) {}
18     open fun write(o: Out) {}
19     open fun read(i: In) {}
20
21     protected fun ktFreq(counts: DoubleArray): DoubleArray {
22         var t = 0.0; for (x in counts) t += x
23         return DoubleArray(k) { (counts[it] + 0.5) / (t + 0.5 * k) }
24     }
25 }
26
27 /** Tarihsel frekans. */
28 class FreqModel(axis: Axis, k: Int) : CatModel("ks_freq", "Frekans", axis, k) {
29     override fun predict(c: SideCtx) = ktFreq(c.mem.counts(axis))
30 }
31
32 /** Son pencere frekansı. */
33 class RecentModel(axis: Axis, k: Int, private val w: Int = 20) : CatModel("ks_recent", "Son pencere ($w)", axis, k) {
34     override fun predict(c: SideCtx): DoubleArray {
35         val wc = c.mem.windowCounts(axis, w)
36         var t = 0.0; for (x in wc) t += x
37         // Küçük örnekte tarihsel frekansa yaslan: gürültüyü kovalama.
38         val base = ktFreq(c.mem.counts(axis))
39         val lam = 8.0
40         return Mx.normalize(DoubleArray(k) { (wc[it] + lam * base[it]) / (t + lam) })
41     }
42 }
43
44 /** n. dereceden Markov geçiş olasılığı; az gözlemde tarihsel frekansa yaslanır. */
45 class MarkovModel(axis: Axis, k: Int, private val order: Int) :
46     CatModel("ks_markov$order", "Geçiş olasılığı ($order)", axis, k) {
47     private val table = DoubleArray(Mx.pow(k, order) * k)
48     private val lam = 2.0
49
50     override fun predict(c: SideCtx): DoubleArray {
51         val base = ktFreq(c.mem.counts(axis))
52         val ctx = c.mem.ctx(axis, order)
53         if (ctx < 0) return base
54         var t = 0.0; for (j in 0 until k) t += table[ctx * k + j]
55         return Mx.normalize(DoubleArray(k) { (table[ctx * k + it] + lam * base[it]) / (t + lam) })
56     }
57
58     override fun learn(c: SideCtx, actual: Int) {
59         val ctx = c.mem.ctx(axis, order)
60         if (ctx >= 0) table[ctx * k + actual]++
61     }
62
63     override fun write(o: Out) = o.da(table)
64     override fun read(i: In) = i.fill(table)
65 }
66
67 /**
68  * Seri (streak) modeli. "Artık kesin döner" mantığı YOKTUR: seri uzunluğuna göre devam/kırılma oranı
69  * yalnızca geçmişte gözlenen ilişki kadar (KT yumuşatmayla) tahmini genel orandan ayırır.
70  */
71 class StreakModel(axis: Axis, k: Int) : CatModel("ks_streak", "Seri (streak)", axis, k) {
72     companion object { const val B = 8 }
73     val cont = DoubleArray(B + 1)
74     val brk = DoubleArray(B + 1)
75
76     private fun bucket(run: Int) = minOf(run, B)
77
78     /** Seri uzunluğu r iken devam olasılığı (öğrenilmiş). */
79     fun continueProb(run: Int): Double {
80         var cs = 0.0; var bsum = 0.0
81         for (b in 1..B) { cs += cont[b]; bsum += brk[b] }
82         val overall = (cs + 1.0 / k * 4) / (cs + bsum + 4.0)
83         val b = bucket(run)
84         return (cont[b] + overall * 6.0) / (cont[b] + brk[b] + 6.0)
85     }
86
87     override fun predict(c: SideCtx): DoubleArray {
88         val last = c.mem.sym(axis, 1)
89         val base = ktFreq(c.mem.counts(axis))
90         if (last < 0) return base
91         val pc = continueProb(c.mem.run(axis))
92         var other = 0.0; for (j in 0 until k) if (j != last) other += base[j]
93         return Mx.normalize(DoubleArray(k) { if (it == last) pc else (1 - pc) * base[it] / other })
94     }
```

[Dosya #43/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/SideModels.kt (Satır 95 ve sonrası)

```
95
96      override fun learn(c: SideCtx, actual: Int) {
97          val last = c.mem.sym(axis, 1)
98          if (last < 0) return
99          val b = bucket(c.mem.run(axis))
100         if (actual == last) cont[b]++ else brk[b]++
101     }
102
103     override fun write(o: Out) { o.da(cont); o.da(brk) }
104     override fun read(i: In) { i.fill(cont); i.fill(brk) }
105 }
106
107 /** Rejime koşullu frekans. */
108 class RegimeFreqModel(axis: Axis, k: Int) : CatModel("ks_regime", "Rejim frekansı", axis, k) {
109     private val table = DoubleArray(V13.REGIMES * k)
110     override fun predict(c: SideCtx): DoubleArray {
111         val base = ktFreq(c.mem.counts(axis))
112         var t = 0.0; for (j in 0 until k) t += table[c.regime * k + j]
113         val lam = 10.0
114         return Mx.normalize(DoubleArray(k) { (table[c.regime * k + it] + lam * base[it]) / (t + lam) })
115     }
116     override fun learn(c: SideCtx, actual: Int) { table[c.regime * k + actual]++ }
117     override fun write(o: Out) = o.da(table)
118     override fun read(i: In) = i.fill(table)
119 }
120
121 /**
122  * Dizi kalıbı (Kalıp analizi stili): farklı uzunluktaki son-bağlamların geçmişteki devamlarına oy verir;
123  * ayna (ters çevrilmiş) kalıplar yarım ağırlıkla katılır. Tablo boyutu k^L ile sınırlıdır.
124  */
125 class PatternModel(axis: Axis, k: Int, private val lens: IntArray) : CatModel("ks_pattern", "Dizi kalıbı", axis, k) {
126     private val tables = Array(lens.size) { DoubleArray(Mx.pow(k, lens[it]) * k) }
127
128     private fun mirrorCtx(ctx: Int, len: Int): Int {
129         var m = 0; var x = ctx
130         val digits = IntArray(len)
131         for (j in len - 1 downTo 0) { digits[j] = x % k; x /= k }
132         for (j in 0 until len) m = m * k + ((k - 1) - digits[j])
133         return m
134     }
135
136     override fun predict(c: SideCtx): DoubleArray {
137         val votes = DoubleArray(k); var tot = 0.0
138         for (li in lens.indices) {
139             val len = lens[li]
140             val ctx = c.mem.ctx(axis, len)
141             if (ctx < 0) continue
142             val w = len.toDouble().pow(1.5)
143             val t = tables[li]
144             var s = 0.0; for (j in 0 until k) s += t[ctx * k + j]
145             if (s > 0) { val ww = w * s / (s + 2.0); for (j in 0 until k) votes[j] += ww * t[ctx * k + j] / s; tot += ww }
146             val mc = mirrorCtx(ctx, len)
147             var ms = 0.0; for (j in 0 until k) ms += t[mc * k + j]
148             if (ms > 0) { val ww = 0.5 * w * ms / (ms + 2.0); for (j in 0 until k) votes[(k - 1) - j] += ww * t[mc * k + j] / ms
    ↳ ; tot += ww }
149         }
150         val base = ktFreq(c.mem.counts(axis))
151         if (tot <= 0) return base
152         return Mx.normalize(DoubleArray(k) { (votes[it] + 0.2 * tot * base[it]) / (1.2 * tot) })
153     }
154
155     override fun learn(c: SideCtx, actual: Int) {
156         for (li in lens.indices) {
157             val ctx = c.mem.ctx(axis, lens[li])
158             if (ctx >= 0) tables[li][ctx * k + actual]++
159         }
160     }
161
162     override fun write(o: Out) { tables.forEach { o.da(it) } }
163     override fun read(i: In) { tables.forEach { i.fill(it) } }
164 }
165
166 /** Üç yan ekseni için Kotlin yan modelleri. */
167 class KotlinSideEngine(private val alphabet: Alphabet) {
168     val axes = listOf(Axis.BS, Axis.OE, Axis.COMB)
169     private val models: Map<Axis, List<CatModel>> = axes.associateWith { build(it) }
170
171     private fun build(axis: Axis): List<CatModel> {
172         val k = alphabet.k(axis)
173         val lens = if (k == 2) intArrayOf(3, 4, 5, 6, 8) else intArrayOf(2, 3, 4, 5)
174         return listOf(
175             FreqModel(axis, k), RecentModel(axis, k), MarkovModel(axis, k, 1), MarkovModel(axis, k, 2),
176             MarkovModel(axis, k, 3), StreakModel(axis, k), RegimeFreqModel(axis, k), PatternModel(axis, k, lens)
177         )
178     }
```

[Dosya #43/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/SideModels.kt (Satır 179 ve sonrası)

```
179
180     fun models(axis: Axis): List<CatModel> = models[axis] ?: emptyList()
181     fun model(axis: Axis, id: String): CatModel? = models(axis).firstOrNull { it.id == id }
182
183     /** Tahmin anı çıktıları: kotlin yan modeli başına ModelOutput. */
184     fun outputs(mem: SequenceMemory, regime: Int): List<ModelOutput> {
185         val c = SideCtx(mem, regime)
186         val bs = models(Axis.BS); val oe = models(Axis.OE); val cb = models(Axis.COMB)
187         return bs.indices.map { i ->
188             ModelOutput(bs[i].id, "Kotlin yan · " + bs[i].name, Group.KOTLIN,
189                 bs = bs[i].predict(c), oe = oe[i].predict(c), comb = cb[i].predict(c))
190         }
191     }
192
193     /** Hafıza güncellenmeden ÖNCE çağrılır. actual: BS, OE, COMB gerçek sınıfları. */
194     fun learn(mem: SequenceMemory, regime: Int, bs: Int, oe: Int, comb: Int) {
195         val c = SideCtx(mem, regime)
196         models(Axis.BS).forEach { it.learn(c, bs) }
197         models(Axis.OE).forEach { it.learn(c, oe) }
198         models(Axis.COMB).forEach { it.learn(c, comb) }
199     }
200
201     fun write(o: Out) { axes.forEach { a -> models(a).forEach { it.write(o) } } }
202     fun read(i: In) { axes.forEach { a -> models(a).forEach { it.read(i) } } }
203 }
```

[Dosya #44/84] Proje Yolu: app/src/main/java/fan/superai/v13/Meta.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 14.855 B (14.5 KB) | Satır: 336 satır SHA-256: 0606fb67af5baf4e809d52b62c38be1f…

```
1  package fan.superai.v13
2
3  import kotlin.math.abs
4  import kotlin.math.exp
5  import kotlin.math.ln
6  import kotlin.math.max
7  import kotlin.math.sqrt
8
9  /** Olasılık havuzlama: doğrusal karışım + sıcaklık. Karşı-olgusal analiz de aynı kodu kullanır. */
10 object Pool {
11     fun mix(k: Int, dists: Array<DoubleArray>, w: DoubleArray): DoubleArray {
12         val out = DoubleArray(k)
13         for (i in dists.indices) for (c in 0 until k) out[c] += w[i] * dists[i][c]
14         var s = 0.0; for (c in 0 until k) s += out[c]
15         if (s <= 0 || s.isNaN()) return Mx.uniform(k)
16         for (c in 0 until k) out[c] /= s
17         return out
18     }
19
20     fun shape(k: Int, mix: DoubleArray, tau: Double): DoubleArray {
21         val z = DoubleArray(k) { ln(max(mix[it], Mx.FLOOR)) * tau }
22         return Mx.normalize(Mx.softmax(z))
23     }
24 }
25
26 data class ReliabilityBin(val lo: Double, val hi: Double, val n: Int, val meanConf: Double, val accuracy: Double)
27
28 /** Güven kalibrasyonu: üst-sınıf olasılığı kutularına göre gerçek isabet (persistent). */
29 class Calibrator13(val k: Int, val bins: Int = 10) {
30     private val n = DoubleArray(bins)
31     private val hit = DoubleArray(bins)
32     private val sumConf = DoubleArray(bins)
33     var total = 0; private set
34
35     private fun bin(p: Double): Int {
36         val lo = 1.0 / k
37         return (((p - lo) / (1.0 - lo)) * bins).toInt().coerceIn(0, bins - 1)
38     }
39
40     fun add(conf: Double, ok: Boolean) {
41         val i = bin(conf); n[i]++; sumConf[i] += conf; if (ok) hit[i]++; total++
42     }
43
44     /** Kalibre edilmiş güven: kutu isabeti, az gözlemde ham güvene yaslanır. */
45     fun calibrate(conf: Double): Double { val i = bin(conf); val m = 25.0; return (hit[i] + conf * m) / (n[i] + m) }
46
47     /** Beklenen kalibrasyon hatası (ağırlıklı |isabet − güven|). */
48     fun gap(): Double {
49         if (total == 0) return 0.0
50         var g = 0.0
51         for (i in 0 until bins) if (n[i] > 0) g += n[i] / total * abs(hit[i] / n[i] - sumConf[i] / n[i])
52         return g
53     }
54
```

[Dosya #44/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Meta.kt (Satır 55 ve sonrası)

```
    fun table(): List<ReliabilityBin> = (0 until bins).filter { n[it] > 0 }.map {
        val lo = 1.0 / k; val w = (1.0 - lo) / bins
        ReliabilityBin(lo + w * it, lo + w * (it + 1), n[it].toInt(), sumConf[it] / n[it], hit[it] / n[it])
    }

    fun write(o: Out) { o.da(n); o.da(hit); o.da(sumConf); o.i(total) }
    fun read(i: In) { i.fill(n); i.fill(hit); i.fill(sumConf); total = i.i() }
}

/** Sabit boyutlu kayan isabet penceresi. */
class RollBits(private val cap: Int = 100) {
    private val buf = BooleanArray(cap)
    var count = 0; private set
    private var pos = 0
    private var hits = 0
    fun add(b: Boolean) {
        if (count == cap) { if (buf[pos]) hits-- } else count++
        buf[pos] = b; if (b) hits++
        pos = (pos + 1) % cap
    }
    fun rate(): Double = if (count == 0) 0.0 else hits.toDouble() / count
    fun write(o: Out) { o.ba(buf); o.i(count); o.i(pos); o.i(hits) }
    fun read(i: In) { val b = i.ba(); if (b.size != cap) throw FanException(ErrorCodes.STATE_LOAD, "roll"); b.copyInto(buf); count = i.i(); pos = i.i(); hits = i.i() }
}

/**
 * Konformal tek/çift kararı için sabit boyutlu skor halkası (v1.4).
 * Skor = 1 − p[gerçek]; halka dolduğunda en eski skor düşer, böylece karar son 300
 * değerlendirmeyi yansıtır (v1.1 hakemindeki `scoreCap = 300` ile aynı pencere).
 */
class ScoreRing(private val cap: Int = 300) {
    private val buf = DoubleArray(cap)
    var count = 0; private set
    private var pos = 0

    fun add(v: Double) {
        buf[pos] = if (v.isNaN()) 1.0 else v
        pos = (pos + 1) % cap
        if (count < cap) count++
    }

    /** Skorlar (sıra önemsiz; yalnızca dağılım kullanılır). */
    fun values(): DoubleArray = if (count == 0) DoubleArray(0) else DoubleArray(count) { buf[(pos - count + it + cap) % cap] }

    fun clear() { buf.fill(0.0); count = 0; pos = 0 }

    fun write(o: Out) { o.da(buf); o.i(count); o.i(pos) }
    fun read(i: In) { i.fill(buf); count = i.i(); pos = i.i() }
}

/** Bir modelin (bir eksendeki) kalıcı performans durumu. */
class ModelTracker(val k: Int) {
    companion object {
        const val ALPHA_LONG = 0.01
        const val ALPHA_SHORT = 0.06
        const val ALPHA_REG = 0.05
    }
    var n = 0; private set
    var top1 = 0; private set
    var top2 = 0; private set
    var sumLL = 0.0; private set
    var sumBrier = 0.0; private set
    var sumEntropy = 0.0; private set
    var ewmaLong = 0.0; private set          // log-skor kazancı (uniform baseline'a göre)
    var ewmaShort = 0.0; private set
    val roll = RollBits(100)
    val cal = Calibrator13(k)
    val regN = IntArray(V13.REGIMES)
    val regGain = DoubleArray(V13.REGIMES)
    val mu = DoubleArray(k)                  // çıktı ortalaması (çeşitlilik için)
    val vr = DoubleArray(k)

    val accuracy get() = if (n == 0) 0.0 else top1.toDouble() / n
    val top2Rate get() = if (n == 0) 0.0 else top2.toDouble() / n
    val logLoss get() = if (n == 0) 0.0 else sumLL / n
    val brier get() = if (n == 0) 0.0 else sumBrier / n
    val entropy get() = if (n == 0) 0.0 else sumEntropy / n
    val recent get() = roll.rate()

    fun regimeGain(r: Int) = regGain[r] * regN[r] / (regN[r] + 20.0)

    fun observe(p: DoubleArray, actual: Int, regime: Int) {
        val gain = ln(max(p[actual], Mx.FLOOR)) - ln(1.0 / k)
        val o = Mx.top2(p)
```

[Dosya #44/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Meta.kt (Satır 139 ve sonrası)

```
139         val hit1 = o[0] == actual
140         n++; if (hit1) top1++; if (hit1 || o[1] == actual) top2++
141         sumLL += Mx.logLoss(p, actual); sumBrier += Mx.brier(p, actual); sumEntropy += Mx.entropy(p)
142         ewmaLong += max(1.0 / n, ALPHA_LONG) * (gain - ewmaLong)
143         ewmaShort += max(1.0 / n, ALPHA_SHORT) * (gain - ewmaShort)
144         roll.add(hit1)
145         cal.add(p[o[0]], hit1)
146         regN[regime]++
147         regGain[regime] += max(1.0 / regN[regime], ALPHA_REG) * (gain - regGain[regime])
148     }
149 
150     fun write(o: Out) {
151         o.i(n); o.i(top1); o.i(top2); o.d(sumLL); o.d(sumBrier); o.d(sumEntropy); o.d(ewmaLong); o.d(ewmaShort)
152         roll.write(o); cal.write(o); o.ia(regN); o.da(regGain); o.da(mu); o.da(vr)
153     }
154 
155     fun read(i: In) {
156         n = i.i(); top1 = i.i(); top2 = i.i(); sumLL = i.d(); sumBrier = i.d(); sumEntropy = i.d()
157         ewmaLong = i.d(); ewmaShort = i.d()
158         roll.read(i); cal.read(i); i.ia().copyInto(regN); i.fill(regGain); i.fill(mu); i.fill(vr)
159     }
160 }
161 
162 class ModelRow(
163     val id: String, val name: String, val group: Group, val weight: Double,
164     val n: Int, val top1: Double, val top2: Double, val logLoss: Double, val brier: Double,
165     val entropy: Double, val calGap: Double, val recent: Double, val gain: Double
166 )
167 
168 /**
169  * Eksen başına Meta Ensemble. Taban modellerin (Kotlin + Python) olasılıklarını:
170  *   rolling/uzun dönem log-skor kazancı + kalibrasyon + rejim performansı + örnek sayısı + korelasyon cezası
171  * ile ağırlıklandırır. Ağırlıklar YALNIZCA gerçek sonuç öğrenildikten sonra, üstel yumuşatmayla
172  * (stabil) güncellenir; tahmin anında hiçbir ağırlık hesabı yeni bilgi kullanmaz.
173  */
174 class AxisEnsemble(val axis: Axis, val k: Int) {
175     companion object {
176         const val SMOOTH = 0.10          // ağırlık geçişi: tek sonuçla aşırı oynamaz
177         const val MIN_SHARE = 0.15       // ağırlık alt sınırı (1/n çarpanı)
178         const val PAIR_ALPHA = 0.02
179     }
180 
181     val trackers = LinkedHashMap<String, ModelTracker>()
182     private val names = HashMap<String, String>()
183     private val groups = HashMap<String, Group>()
184     private val weights = HashMap<String, Double>()
185     /** Çift istatistikleri: [kovaryans, argmax uyumu, JSD, gözlem sayısı] */
186     private val pairs = HashMap<String, DoubleArray>()
187     var tau = 1.0; private set
188     val finalTracker = ModelTracker(k)
189     var disagreeEwma = 0.0; private set      // modellerin nihai tahminle ayrışma oranı
190     var diversityEwma = 0.0; private set      // ortalama ikili JSD
191     private val eta = 12.0 / ln(k.toDouble())
192 
193     private fun key(a: String, b: String) = if (a < b) "$a|$b" else "$b|$a"
194 
195     fun register(id: String, name: String, group: Group) {
196         if (id !in trackers) trackers[id] = ModelTracker(k)
197         names[id] = name; groups[id] = group
198     }
199 
200     /** Verilen modeller için normalize edilmiş ağırlıklar (bilinmeyen model → eşit pay). */
201     fun weightsFor(ids: List<String>): DoubleArray {
202         if (ids.isEmpty()) return DoubleArray(0)
203         val raw = DoubleArray(ids.size) { weights[ids[it]] ?: (1.0 / ids.size) }
204         val s = raw.sum()
205         return if (s <= 0) DoubleArray(ids.size) { 1.0 / ids.size } else DoubleArray(ids.size) { raw[it] / s }
206     }
207 
208     fun mix(dists: Array<DoubleArray>, w: DoubleArray): DoubleArray = Pool.mix(k, dists, w)
209 
210     /** Sıcaklık ölçekleme (argmax'ı değiştirmez; güven/entropi kalibrasyonu). */
211     fun shape(mix: DoubleArray, tau: Double = this.tau): DoubleArray = Pool.shape(k, mix, tau)
212 
213     /** Gerçek sonuç öğrenildi: bütün istatistikleri ve (ayrıca) çeşitlilik durumunu güncelle. */
214     fun observe(inp: AxisInput, actual: Int, regime: Int) {
215         val n = inp.size
216         for (i in 0 until n) register(inp.ids[i], inp.names[i], inp.groups[i])
217         // Çeşitlilik: eski ortalamalara göre sapmalar
218         val dev = Array(n) { i -> val t = trackers[inp.ids[i]]!!; DoubleArray(k) { c -> inp.dists[i][c] - t.mu[c] } }
219         val arg = IntArray(n) { Mx.argmax(inp.dists[it]) }
220         val m = mix(inp.dists, inp.weights)
221         val fin = shape(m, inp.tau)
222         val fa = Mx.argmax(fin)
223         var dis = 0; for (i in 0 until n) if (arg[i] != fa) dis++
```

[Dosya #44/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Meta.kt (Satır 224 ve sonrası)

```
224         if (n > 0) disagreeEwma += 0.05 * (dis.toDouble() / n - disagreeEwma)
225         var jsdSum = 0.0; var jsdCnt = 0
226         for (i in 0 until n) for (j in i + 1 until n) {
227             val ps = pairs.getOrPut(key(inp.ids[i], inp.ids[j])) { DoubleArray(4) }
228             var cov = 0.0; for (c in 0 until k) cov += dev[i][c] * dev[j][c]
229             val a = max(1.0 / (ps[3] + 1), PAIR_ALPHA)
230             ps[0] += a * (cov - ps[0])
231             ps[1] += a * ((if (arg[i] == arg[j]) 1.0 else 0.0) - ps[1])
232             val js = Mx.jsd(inp.dists[i], inp.dists[j])
233             ps[2] += a * (js - ps[2]); ps[3] += 1.0
234             jsdSum += js; jsdCnt++
235         }
236         if (jsdCnt > 0) diversityEwma += 0.05 * (jsdSum / jsdCnt - diversityEwma)
237         for (i in 0 until n) {
238             val t = trackers[inp.ids[i]]!!
239             val first = t.n == 0
240             // Ortalama/varyans önce güncellenir (n'den bağımsız EWMA), sonra performans
241             val a = max(1.0 / (t.n + 1), 0.02)
242             for (c in 0 until k) {
243                 val d = if (first) 0.0 else dev[i][c]
244                 t.mu[c] += a * (inp.dists[i][c] - t.mu[c])
245                 t.vr[c] += a * (d * d - t.vr[c])
246             }
247             t.observe(inp.dists[i], actual, regime)
248         }
249         finalTracker.observe(fin, actual, regime)
250         // Sıcaklık (tau): log-kayıp gradyanı, küçük adım, sınırlı aralık
251         val z = DoubleArray(k) { ln(max(m[it], Mx.FLOOR)) }
252         val p = Mx.softmax(DoubleArray(k) { z[it] * tau })
253         var ez = 0.0; for (c in 0 until k) ez += p[c] * z[c]
254         val g = -(z[actual] - ez)
255         tau = Mx.clamp(tau - 0.02 * g, 0.5, 1.5)
256     }
257 
258     private fun correlation(a: String, b: String): Double {
259         val ps = pairs[key(a, b)] ?: return 0.0
260         if (ps[3] < 20) return 0.0
261         val ta = trackers[a] ?: return 0.0; val tb = trackers[b] ?: return 0.0
262         val va = ta.vr.sum(); val vb = tb.vr.sum()
263         if (va < 1e-12 || vb < 1e-12) return 0.0
264         return Mx.clamp(ps[0] / sqrt(va * vb), -1.0, 1.0)
265     }
266 
267     fun corr(a: String, b: String) = correlation(a, b)
268     fun agreement(a: String, b: String): Double = pairs[key(a, b)]?.get(1) ?: 0.0
269 
270     /** Bir model için ortalama pozitif korelasyon (çeşitlilik cezası girdisi). */
271     fun meanCorr(id: String): Double {
272         var s = 0.0; var c = 0
273         for (o in trackers.keys) if (o != id) { s += max(0.0, correlation(id, o)); c++ }
274         return if (c == 0) 0.0 else s / c
275     }
276 
277     /** Gerçek sonuç + rejim güncellemesinden SONRA: bir sonraki tahminde kullanılacak ağırlıkları yumuşat. */
278     fun updateWeights(nextRegime: Int) {
279         if (trackers.isEmpty()) return
280         val raw = HashMap<String, Double>()
281         var sum = 0.0
282         for ((id, t) in trackers) {
283             val perf = 0.5 * t.ewmaLong + 0.5 * t.ewmaShort + 0.5 * t.regimeGain(nextRegime)
284             val calPen = if (t.cal.total >= 50) 4.0 * t.cal.gap() else 0.0
285             val s = Mx.clamp(eta * perf - calPen, -1.5, 1.5)
286             val sample = t.n / (t.n + 30.0)
287             val div = 1.0 / (1.0 + meanCorr(id))
288             val r = exp(s) * (0.3 + 0.7 * sample) * div
289             raw[id] = r; sum += r
290         }
291         val nn = trackers.size
292         for ((id, r) in raw) {
293             val target = r / sum
294             val prev = weights[id] ?: target
295             weights[id] = max((1 - SMOOTH) * prev + SMOOTH * target, MIN_SHARE / nn)
296         }
297         val s2 = weights.values.sum()
298         for (id in weights.keys.toList()) weights[id] = weights[id]!! / s2
299     }
300 
301     fun rows(): List<ModelRow> = trackers.map { (id, t) ->
302         ModelRow(id, names[id] ?: id, groups[id] ?: Group.KOTLIN, weights[id] ?: 0.0, t.n, t.accuracy, t.top2Rate,
303             t.logLoss, t.brier, t.entropy, t.cal.gap(), t.recent, 0.5 * t.ewmaLong + 0.5 * t.ewmaShort)
304     }.sortedByDescending { it.weight }
305 
306     fun name(id: String) = names[id] ?: id
307     fun group(id: String) = groups[id] ?: Group.KOTLIN
308     fun weight(id: String) = weights[id] ?: 0.0
```

[Dosya #44/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Meta.kt (Satır 309 ve sonrası)

```

    // ---- serileştirme ----
    fun writeEnsemble(o: Out) {
        o.d(tau); o.d(disagreeEwma); o.d(diversityEwma)
        o.i(trackers.size)
        for (id in trackers.keys) { o.s(id); o.s(names[id] ?: id); o.s((groups[id] ?: Group.KOTLIN).name); o.d(weights[id] ?: 0.0) }
        o.i(pairs.size)
        for ((kk, v) in pairs) { o.s(kk); o.da(v) }
    }

    fun writeTracker(id: String, o: Out) { trackers[id]!!.write(o) }
    fun writeFinal(o: Out) { finalTracker.write(o) }

    fun readEnsemble(i: In) {
        tau = i.d(); disagreeEwma = i.d(); diversityEwma = i.d()
        trackers.clear(); weights.clear(); pairs.clear()
        repeat(i.i()) {
            val id = i.s(); val nm = i.s(); val g = Group.valueOf(i.s()); val w = i.d()
            trackers[id] = ModelTracker(k); names[id] = nm; groups[id] = g; if (w > 0) weights[id] = w
        }
        repeat(i.i()) { pairs[i.s()] = i.da() }
    }

    fun reset() { trackers.clear(); weights.clear(); pairs.clear(); names.clear(); groups.clear(); tau = 1.0; disagreeEwma = 0.0; diversityEwma = 0.0 }

    fun readTracker(id: String, i: In) { trackers[id]?.read(i) }
    fun readFinal(i: In) { finalTracker.read(i) }
}
```

[Dosya #45/84] Proje Yolu: app/src/main/java/fan/superai/v13/Brain.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 23.789 B (23.2 KB) | Satır: 443 satır SHA-256: d3cbbd44a6a2eee09eb017070b55a90a…

```
package fan.superai.v13

import java.util.zip.CRC32
import kotlin.math.exp
import kotlin.math.ln
import kotlin.math.max

/** Leakage guard sayaçları: ihlaller sayılır, açık hata kodlarıyla kaydedilir. */
class LeakageGuard {
    var checks = 0L; private set
    var violations = 0L; private set
    var warnings = 0L; private set
    private val messages = ArrayDeque<String>()

    fun check(ok: Boolean, what: () -> String) {
        checks++
        if (!ok) {
            violations++
            val m = "${ErrorCodes.LEAK_FUTURE} ${what()}"
            messages.addLast(m); while (messages.size > 20) messages.removeFirst()
            FanLog.event(FanLog.LEAKAGE_CHECK, m)
        }
    }

    fun warn(ok: Boolean, what: () -> String) {
        if (!ok) { warnings++; messages.addLast("WARN " + what()); while (messages.size > 20) messages.removeFirst() }
    }

    fun recent(): List<String> = messages.toList()
    fun write(o: Out) { o.l(checks); o.l(violations); o.l(warnings) }
    fun read(i: In) { checks = i.l(); violations = i.l(); warnings = i.l() }
}

/** Tahmin kilidi: değişmez tahmin + tahmin anı bağlamı. Gerçek sonuç bunu DEĞİŞTİREMEZ. */
class OpenLock(val prediction: FinalPrediction, val ctx: PredictionContext) {
    val sequence: Int get() = prediction.predictionSequence
}

class BrainStats {
    var total = 0
    var numberHits = 0; var top2Hits = 0; var bsHits = 0; var oeHits = 0; var sideHits = 0
    var numberLL = 0.0; var sideLL = 0.0
    var baseNumber = 0; var baseBs = 0; var baseOe = 0; var baseSide = 0     // nedensel çoğunluk baseline'ı
    val rollNumber = RollBits(100)
    val rollSide = RollBits(100)
    var blendProduct = 0.5
    /** Konformal tek/çift kararı için geçmiş uyumsuzluk skorları (1 − p[gerçek]); v1.4. */
    val pairScores = ScoreRing(300)

```

[Dosya #45/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Brain.kt (Satır 50 ve sonrası)

```
50      fun write(o: Out) {
51          o.i(total); o.i(numberHits); o.i(top2Hits); o.i(bsHits); o.i(oeHits); o.i(sideHits)
52          o.d(numberLL); o.d(sideLL); o.i(baseNumber); o.i(baseBs); o.i(baseOe); o.i(baseSide)
53          rollNumber.write(o); rollSide.write(o); o.d(blendProduct); pairScores.write(o)
54      }
55
56      fun read(i: In) {
57          total = i.i(); numberHits = i.i(); top2Hits = i.i(); bsHits = i.i(); oeHits = i.i(); sideHits = i.i()
58          numberLL = i.d(); sideLL = i.d(); baseNumber = i.i(); baseBs = i.i(); baseOe = i.i(); baseSide = i.i()
59          rollNumber.read(i); rollSide.read(i); blendProduct = i.d()
60          // v1.3 durumlarında bu bölüm yok: eski kayıtlar da sorunsuz yüklenir.
61          if (i.left() > 0) pairScores.read(i)
62      }
63  }
64
65  /** Kalıcı saklama için bir durum parçası. [table]: Room tablosu, [key]: satır anahtarı. */
66  class StatePart(val table: String, val key: String, val bytes: ByteArray, val perf: PerfRow? = null) {
67      val full: String get() = "$table/$key"
68  }
69
70  class PerfRow(
71      val axis: String, val modelId: String, val name: String, val group: String, val n: Int,
72      val top1: Int, val top2: Int, val logLoss: Double, val brier: Double, val entropy: Double,
73      val recent: Double, val calGap: Double, val weight: Double, val gain: Double
74  )
75
76  /**
77   * Karar kuralı: tüm eksen dağılımlarından TEK rakam (istenirse ikinci adayla birlikte) + TEK yan
78   * (BS + OE) seçer. [numberSecond] yalnızca çift (2 rakam) kararında doludur; null ise gösterim tektir.
79   */
80  class Decision(
81      val numberIdx: Int, val numberSecond: Int?, val bs: Int, val oe: Int,
82      val joint: DoubleArray, val marginalBs: DoubleArray, val marginalOe: DoubleArray
83  ) {
84      val single: Boolean get() = numberSecond == null
85
86      companion object {
87          /** Otomatik (konformal) modda karar için gereken en az skor sayısı — v1.1 hakemiyle aynı kural. */
88          const val CONFORMAL_MIN = 30
89
90          /**
91           * fin: eksen başına (temperature uygulanmış) dağılımlar; wp: ürün uzmanının ağırlığı.
92           * pairMode: 0 otomatik (konformal), 1 her zaman çift, 2 her zaman tek.
93           * scores: geçmiş uyumsuzluk skorları (1 − p[gerçek]). Otomatik modda %50 kapsama eşiği
94           * kaç rakam gösterileceğini belirler; skor azsa çift (2 rakam) gösterilir — v1.1'deki
95           * onaylanmış davranış korunur.
96           */
97          fun decide(fin: Array<DoubleArray>, wp: Double, pairMode: Int = 0, scores: DoubleArray = DoubleArray(0)): Decision {
98              val pb = fin[Axis.BS.ordinal]; val po = fin[Axis.OE.ordinal]; val pc = fin[Axis.COMB.ordinal]
99              val joint = DoubleArray(4)
100             for (b in 0..1) for (o in 0..1) {
101                 val prod = max(pb[b] * po[o], Mx.FLOOR)
102                 joint[b * 2 + o] = exp(wp * ln(prod) + (1 - wp) * ln(max(pc[b * 2 + o], Mx.FLOOR)))
103             }
104             Mx.normalize(joint, 1e-6)
105             val mb = doubleArrayOf(joint[0] + joint[1], joint[2] + joint[3])
106             val mo = doubleArrayOf(joint[0] + joint[2], joint[1] + joint[3])
107             val number = fin[Axis.NUMBER.ordinal]
108             val o = Mx.top2(number)
109             val single = when (pairMode) {
110                 2 -> true
111                 1 -> false
112                 else -> if (scores.size < CONFORMAL_MIN) false else {
113                     val sorted = scores.sorted()
114                     val q = sorted[(sorted.size * 0.5).toInt().coerceAtMost(sorted.size - 1)]
115                     (number.indices).count { 1 - number[it] <= q } <= 1
116                 }
117             }
118             return Decision(o[0], if (single) null else o[1], Mx.argmax(mb), Mx.argmax(mo), joint, mb, mo)
119         }
120     }
121 }
122
123 /**
124  * FAN SUPER v1.3 beyni. Saf Kotlin: Android ve veritabanından bağımsızdır (kalıcılık [exportParts] /
125  * [importParts] ile yapılır).
126  *
127  * Akış: predict() → (tahmin LOCK) → onActual() → değerlendir → online öğren → rejim/kalibrasyon/ağırlık → sonraki predict().
128  */
129 class FanBrain(val alphabet: Alphabet = Alphabet()) {
130     val mem = SequenceMemory(alphabet)
131     val regime = RegimeEngine()
132     val side = KotlinSideEngine(alphabet)
133     val ens: Array<AxisEnsemble> = Array(4) { AxisEnsemble(Axis.values()[it], alphabet.k(Axis.values()[it])) }
134     val stats = BrainStats()
```

[Dosya #45/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Brain.kt (Satır 135 ve sonrası)

```
135     val guard = LeakageGuard()
136     var open: OpenLock? = null; private set
137     var lastEvaluation: EvaluationResult? = null; private set
138     private val recentEvals = ArrayDeque<EvaluationResult>()
139     private val undoRing = ArrayDeque<Pair<Int, ByteArray>>()
140     var mode: Mode = Mode.LIVE
141     /** Replay/sandbox sırasında undo halkası tutulmaz (gereksiz CPU/RAM). */
142     var recordUndo = true
143
144     companion object { const val UNDO_DEPTH = 64 }
145
146     val count: Int get() = mem.n
147     fun recentEvaluations(): List<EvaluationResult> = recentEvals.toList()
148     fun currentPrediction(): FinalPrediction? = open?.prediction
149
150     // ------------------------------------------------------------------ tahmin + LOCK
151     /**
152      * Mevcut bilinen veriyle TEK nihai tahmin üretir ve KİLİTLER. Kilit açıkken tekrar çağrılırsa aynı
153      * tahmin döner (aynı tahmini yeniden üretmeyiz). [inputs]: Kotlin/Python rakam modelleri ve Python yan modelleri.
154      * [pairMode]: 0 otomatik (konformal), 1 her zaman çift, 2 her zaman tek — v1.4 tek/çift kararı.
155      */
156     fun predict(inputs: List<ModelOutput>, nowSeconds: Long, pairMode: Int = 0): FinalPrediction {
157         open?.let {
158             if (it.sequence == mem.n) return it.prediction
159             FanLog.event(FanLog.ERROR, "${ErrorCodes.LOCK_STALE} kilit #${it.sequence} ≠ kayıt sayısı ${mem.n}; atıldı")
160             open = null
161         }
162         val all = (inputs + side.outputs(mem, regime.current)).sortedBy { it.id }
163         val axes = Array(4) { buildAxis(Axis.values()[it], all) }
164         val ctx = PredictionContext(axes, regime.current, stats.blendProduct, pairMode)
165         val pred = compose(ctx, mem.n, mem.lastRecordId, nowSeconds, null)
166         open = OpenLock(pred, ctx)
167         FanLog.event(FanLog.PREDICTION_CREATED, "#${pred.predictionSequence} → ${pred.number}" +
168             (pred.numberSecondary?.let { "/$it" } ?: "") + " · ${pred.sideDisplay}")
169         FanLog.event(FanLog.PREDICTION_LOCKED, pred.predictionLockId)
170         return pred
171     }
172
173     private fun buildAxis(axis: Axis, all: List<ModelOutput>): AxisInput {
174         val e = ens[axis.ordinal]
175         val used = all.filter { it.dist(axis) != null }
176         used.forEach { e.register(it.id, it.name, it.group) }
177         val ids = used.map { it.id }
178         return AxisInput(
179             ids.toTypedArray(), used.map { it.name }.toTypedArray(), used.map { it.group }.toTypedArray(),
180             Array(used.size) { Mx.normalize(used[it].dist(axis)!!.copyOf()) }, e.weightsFor(ids), e.tau
181         )
182     }
183
184     private fun axisMix(ctx: PredictionContext, axis: Axis): DoubleArray {
185         val a = ctx.axis(axis); val k = alphabet.k(axis)
186         return if (a.size == 0) Mx.uniform(k) else Pool.mix(k, a.dists, a.weights)
187     }
188
189     /**
190      * Bir grubun (Kotlin/Python) rakam eksenindeki ağırlıklı karışımı — v1.4 overlay'inin
191      * meclis satırları bu dağılımdan beslenir. Grup yoksa null ("--" gösterilir).
192      * Ağırlıklar grup içinde yeniden normalize edilir; karar verici değildir, yalnızca gösterim.
193      */
194     private fun groupNumber(ctx: PredictionContext, g: Group): DoubleArray? {
195         val a = ctx.axis(Axis.NUMBER)
196         val idx = (0 until a.size).filter { a.groups[it] == g }
197         if (idx.isEmpty()) return null
198         var s = 0.0; for (i in idx) s += a.weights[i]
199         val w = DoubleArray(idx.size) { if (s > 0) a.weights[idx[it]] / s else 1.0 / idx.size }
200         return Pool.mix(alphabet.size, Array(idx.size) { Mx.normalize(a.dists[idx[it]].copyOf()) }, w)
201     }
202
203     /** Bağlamdan nihai tahmini deterministik üretir (kilit geri yüklenirken de aynı kod kullanılır). */
204     private fun compose(ctx: PredictionContext, seq: Int, lastKnownId: Long, ts: Long, lockId: String?): FinalPrediction {
205         val mixes = Array(4) { axisMix(ctx, Axis.values()[it]) }
206         val fin = Array(4) { Pool.shape(alphabet.k(Axis.values()[it]), mixes[it], ctx.axis(Axis.values()[it]).tau) }
207         val d = Decision.decide(fin, ctx.blendProduct, ctx.pairMode, stats.pairScores.values())
208         val number = alphabet.number(d.numberIdx)
209         val numberSecond = d.numberSecond?.let { alphabet.number(it) }
210         val classes = IntArray(alphabet.size) { alphabet.number(it) }
211         val numDist = PredictionDistribution.of("final", classes, fin[0], ts)
212         val calN = ens[Axis.NUMBER.ordinal].finalTracker.cal
213         // Güven, GÖSTERİLEN aday kümesinin olasılığına göre kalibre edilir:
214         // tek rakamda p[1. aday], çift kararında p[1. aday] + p[2. aday] (v1.1 hakemiyle aynı).
215         val shownP = fin[0][d.numberIdx] + (d.numberSecond?.let { fin[0][it] } ?: 0.0)
216         val conf = calN.calibrate(shownP)
217         val calB = ens[Axis.BS.ordinal].finalTracker.cal; val calO = ens[Axis.OE.ordinal].finalTracker.cal
218         val sideConf = 0.5 * (calB.calibrate(d.marginalBs[d.bs]) + calO.calibrate(d.marginalOe[d.oe]))
219         val bsE = BigSmall.fromIndex(d.bs); val oeE = OddEven.fromIndex(d.oe)
```

[Dosya #45/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Brain.kt (Satır 220 ve sonrası)

```
220         val combined = CombinedSide.of(bsE, oeE)
221         val sideDist = SideDistribution("final", d.marginalBs, d.marginalOe, d.joint,
222             sideConf, Mx.entropy(d.joint), ts)
223         val chosen = intArrayOf(d.numberIdx, d.bs, d.oe, combined.index)
224         val contributions = ArrayList<ModelContribution>()
225         for (ax in Axis.values()) {
226             val a = ctx.axis(ax); val c = chosen[ax.ordinal]; val mx = mixes[ax.ordinal]
227             for (i in 0 until a.size) {
228                 val pf = a.dists[i][c]
229                 contributions.add(ModelContribution(ax, a.ids[i], a.names[i], a.groups[i], a.weights[i],
230                     Mx.argmax(a.dists[i]), pf, if (mx[c] > 0) a.weights[i] * pf / mx[c] else 0.0))
231             }
232         }
233         val crc = CRC32()
234         fun feed(v: Long) { for (b in 0 until 8) crc.update(((v shr (8 * b)) and 0xFF).toInt()) }
235         feed(seq.toLong()); feed(lastKnownId); feed(number.toLong()); feed(combined.index.toLong())
236         for (x in fin[0]) feed((x * 1e6).toLong())
237         for (x in d.joint) feed((x * 1e6).toLong())
238         val hash = crc.value
239         val id = lockId ?: ("L$seq-" + java.lang.Long.toHexString(hash))
240         val expl = Explainer(this, ctx, fin, d, mixes, combined, contributions).build()
241         return FinalPrediction(
242             number, numDist, bsE, oeE, combined.name, sideDist, conf, sideConf, Mx.entropy(fin[0]),
243             V13.REGIME_NAMES[ctx.regime], V13.ENSEMBLE_VERSION, ts, id, seq, lastKnownId, hash, contributions, expl,
244             numberSecond, groupNumber(ctx, Group.KOTLIN), groupNumber(ctx, Group.PYTHON)
245         )
246     }
247
248     /** Karşı-olgusal analiz için: şu anki kilidin bağlamı (varsa). */
249     fun currentContext(): PredictionContext? = open?.ctx
250
251     // ---------------------------------------------------------------- gerçek sonuç + online öğrenme
252     /** Gerçek sonuç geldi. Kilitli tahmin değerlendirilir, sonra TÜM durum güncellenir. */
253     fun onActual(rec: FanRecord): EvaluationResult {
254         if (!alphabet.valid(rec.number)) throw FanException(ErrorCodes.VALIDATE, "geçersiz rakam ${rec.number}")
255         FanLog.event(FanLog.NEW_RECORD, "#${rec.recordId} = ${rec.number}")
256         if (recordUndo) pushUndo()
257         val lock = open
258         val actual = IntArray(4) { alphabet.actual(Axis.values()[it], rec.number) }
259         var ev: EvaluationResult
260         if (lock != null && lock.sequence == mem.n) {
261             val p = lock.prediction
262             guard.check(p.lastKnownRecordId == mem.lastRecordId) { "kilit #${p.predictionSequence} bilinen kayıt kimliği uyuşmuy
    ↳ or" }
263             guard.warn(p.predictionTimestamp <= rec.timestamp) { "tahmin zamanı gerçek sonuçtan sonra (#${rec.recordId})" }
264             ev = evaluate(lock, rec, actual)
265             FanLog.event(FanLog.ACTUAL_RESULT_RECEIVED, "#${rec.recordId}: tahmin ${p.number} → gerçek ${rec.number} " +
266                 (if (ev.numberHit) "✓" else "✗") + " · yan " + (if (ev.sideHit) "✓" else "✗"))
267         } else {
268             if (lock != null) FanLog.event(FanLog.ERROR, "${ErrorCodes.SEQUENCE} kilit sırası ${lock.sequence} ≠ ${mem.n}")
269             ev = EvaluationResult(mem.n, rec.recordId, rec.timestamp, rec.number, -1, CombinedSide.SMALL_EVEN,
270                 false, false, false, false, false, 0.0, 0.0, regime.name(), "", false)
271         }
272         // Yan modeller bağlam hafıza güncellenmeden ÖNCE öğrenir
273         side.learn(mem, regime.current, actual[1], actual[2], actual[3])
274         mem.append(rec)
275         val changed = regime.update(mem)
276         if (changed) FanLog.event(FanLog.REGIME_CHANGED, "→ ${regime.name()} (#${mem.n})")
277         for (e in ens) e.updateWeights(regime.current)
278         FanLog.event(FanLog.ENSEMBLE_UPDATED, "ağırlıklar yumuşatıldı")
279         open = null
280         lastEvaluation = ev
281         recentEvals.addLast(ev); while (recentEvals.size > 300) recentEvals.removeFirst()
282         return ev
283     }
284
285     private fun evaluate(lock: OpenLock, rec: FanRecord, actual: IntArray): EvaluationResult {
286         val p = lock.prediction; val ctx = lock.ctx
287         // Taban modeller, ensemble izleyicileri, kalibrasyon, çeşitlilik
288         for (ax in Axis.values()) ens[ax.ordinal].observe(ctx.axis(ax), actual[ax.ordinal], ctx.regime)
289         FanLog.event(FanLog.MODEL_UPDATED, "izleyiciler güncellendi")
290         FanLog.event(FanLog.CALIBRATION_UPDATED, "kalibrasyon+sıcaklık güncellendi")
291         val numHit = alphabet.number(Mx.argmax(p.numberDistribution.probabilities)) == rec.number
292         val t2 = Mx.top2(p.numberDistribution.probabilities)
293         val top2Hit = alphabet.number(t2[0]) == rec.number || alphabet.number(t2[1]) == rec.number
294         val bsHit = p.bigSmall.index == actual[1]; val oeHit = p.oddEven.index == actual[2]
295         val sideHit = bsHit && oeHit
296         val numLL = Mx.logLoss(p.numberDistribution.probabilities, actual[0])
297         val sideLL = Mx.logLoss(p.sideDistribution.combined, actual[3])
298         // Konformal tek/çift kararı için uyumsuzluk skoru (v1.4): 1 − p[gerçek].
299         stats.pairScores.add(1 - p.numberDistribution.probabilities[actual[0]])
300         // Yan karışımı (ürün vs doğrudan birleşik) — Hedge, sabit paylaşımlı
301         val ctxFin = Array(4) { Pool.shape(alphabet.k(Axis.values()[it]), axisMix(ctx, Axis.values()[it]), ctx.axis(Axis.values(
    ↳ )[it]).tau) }
302         val pb = ctxFin[1]; val po = ctxFin[2]; val pc = ctxFin[3]
```

[Dosya #45/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Brain.kt (Satır 303 ve sonrası)

```
303         val lp = -ln(max(pb[actual[1]] * po[actual[2]], Mx.FLOOR))
304         val lc = -ln(max(pc[actual[3]], Mx.FLOOR))
305         val a = ctx.blendProduct * exp(-0.3 * lp); val b = (1 - ctx.blendProduct) * exp(-0.3 * lc)
306         stats.blendProduct = Mx.clamp(a / (a + b), 0.1, 0.9)
307         // İstatistikler (+ nedensel çoğunluk baseline'ı: sonuç öğrenilmeden önceki frekanslar)
308         stats.total++
309         if (numHit) stats.numberHits++; if (top2Hit) stats.top2Hits++
310         if (bsHit) stats.bsHits++; if (oeHit) stats.oeHits++; if (sideHit) stats.sideHits++
311         stats.numberLL += numLL; stats.sideLL += sideLL
312         stats.rollNumber.add(numHit); stats.rollSide.add(sideHit)
313         if (Mx.argmax(mem.counts(Axis.NUMBER)) == actual[0]) stats.baseNumber++
314         if (Mx.argmax(mem.counts(Axis.BS)) == actual[1]) stats.baseBs++
315         if (Mx.argmax(mem.counts(Axis.OE)) == actual[2]) stats.baseOe++
316         if (Mx.argmax(mem.counts(Axis.COMB)) == actual[3]) stats.baseSide++
317         regime.record(ctx.regime, numHit, sideHit, top2Hit)
318         return EvaluationResult(p.predictionSequence, rec.recordId, rec.timestamp, rec.number, p.number, p.side,
319             numHit, top2Hit, bsHit, oeHit, sideHit, numLL, sideLL, V13.REGIME_NAMES[ctx.regime], p.predictionLockId, true)
320     }
321
322     // ------------------------------------------------------------------ geri alma (DEL)
323     private fun pushUndo() {
324         undoRing.addLast(mem.n to snapshot())
325         while (undoRing.size > UNDO_DEPTH) undoRing.removeFirst()
326     }
327
328     val undoDepth: Int get() = undoRing.size
329
330     /** En son (kayıt sayısı, sıkıştırılmış anlık görüntü) — Room'a son 8 snapshot yazmak için. */
331     fun lastUndoSnapshot(): Pair<Int, ByteArray>? = undoRing.lastOrNull()
332
333     /** Durumu [count] kayıt öğrenilmiş haline (o kayda ait KİLİTLİ tahminle) döndürür. */
334     fun undoTo(count: Int): Boolean {
335         while (undoRing.isNotEmpty() && undoRing.last().first > count) undoRing.removeLast()
336         val s = undoRing.lastOrNull()?.takeIf { it.first == count } ?: return false
337         return try {
338             restore(s.second)
339             undoRing.removeLast()
340             recentEvals.clear()
341             true
342         } catch (e: Exception) { FanLog.event(FanLog.ERROR, "${ErrorCodes.STATE_LOAD} undo: ${e.message}"); false }
343     }
344
345     // ------------------------------------------------------------------ durum (kalıcılık)
346     private inline fun bytes(f: (Out) -> Unit): ByteArray { val o = Out(); f(o); return o.toBytes() }
347
348     fun exportParts(): List<StatePart> {
349         val out = ArrayList<StatePart>()
350         out += StatePart("model_state", "memory", bytes { mem.write(it) })
351         out += StatePart("model_state", "side", bytes { side.write(it) })
352         out += StatePart("model_state", "stats", bytes { stats.write(it); guard.write(it) })
353         out += StatePart("regime_state", "live", bytes { regime.write(it) })
354         for (ax in Axis.values()) {
355             val e = ens[ax.ordinal]
356             out += StatePart("ensemble_state", ax.name, bytes { e.writeEnsemble(it) })
357             out += StatePart("calibration_state", ax.name, bytes { e.writeFinal(it) })
358             for ((id, t) in e.trackers) {
359                 out += StatePart("model_performance", "${ax.name}:$id", bytes { e.writeTracker(id, it) },
360                     PerfRow(ax.name, id, e.name(id), e.group(id).name, t.n, t.top1, t.top2, t.logLoss, t.brier,
361                         t.entropy, t.recent, t.cal.gap(), e.weight(id), 0.5 * t.ewmaLong + 0.5 * t.ewmaShort))
362             }
363         }
364         out += StatePart("model_state", "lock", bytes { writeLock(it) })
365         return out
366     }
367
368     /** Bütün parçaları yükler. Eksik/bozuk parça → FAN-E-STATE-001. Önce sıfırlama yapılmaz: yeni brain'e yükleyin. */
369     fun importParts(parts: Map<String, ByteArray>) {
370         fun need(k: String): ByteArray = parts[k] ?: throw FanException(ErrorCodes.STATE_LOAD, "eksik parça $k")
371         mem.read(In(need("model_state/memory")))
372         side.read(In(need("model_state/side")))
373         run { val i = In(need("model_state/stats")); stats.read(i); guard.read(i) }
374         regime.read(In(need("regime_state/live")))
375         for (ax in Axis.values()) {
376             val e = ens[ax.ordinal]
377             e.readEnsemble(In(need("ensemble_state/${ax.name}")))
378             e.readFinal(In(need("calibration_state/${ax.name}")))
379             for (id in e.trackers.keys.toList()) e.readTracker(id, In(need("model_performance/${ax.name}:$id")))
380         }
381         open = null
382         val lockBytes = need("model_state/lock")
383         readLock(In(lockBytes))
384     }
385
386     private fun writeLock(o: Out) {
387         val l = open
```

[Dosya #45/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Brain.kt (Satır 388 ve sonrası)

```
388         o.b(l != null)
389         if (l == null) return
390         val p = l.prediction; val ctx = l.ctx
391         for (ax in Axis.values()) {
392             val a = ctx.axis(ax)
393             o.i(a.size)
394             for (i in 0 until a.size) { o.s(a.ids[i]); o.s(a.names[i]); o.i(a.groups[i].ordinal); o.da(a.dists[i]) }
395             o.da(a.weights); o.d(a.tau)
396         }
397         o.i(ctx.regime); o.d(ctx.blendProduct)
398         o.i(p.predictionSequence); o.l(p.lastKnownRecordId); o.l(p.predictionTimestamp); o.s(p.predictionLockId); o.l(p.lockHash
    ↳ )
399         // v1.4 alanı EN SONDA: v1.3 kilitleri (bu alan olmadan) aynen okunmaya devam eder.
400         o.i(ctx.pairMode)
401     }
402
403     private fun readLock(i: In) {
404         if (!i.b()) { open = null; return }
405         val axes = Array(4) {
406             val n = i.i()
407             val ids = Array(n) { "" }; val names = Array(n) { "" }; val groups = Array(n) { Group.KOTLIN }
408             val dists = Array(n) { DoubleArray(0) }
409             for (j in 0 until n) { ids[j] = i.s(); names[j] = i.s(); groups[j] = Group.values()[i.i()]; dists[j] = i.da() }
410             val w = i.da(); val tau = i.d()
411             AxisInput(ids, names, groups, dists, w, tau)
412         }
413         val reg = i.i(); val bp = i.d()
414         val seq = i.i(); val lastId = i.l(); val ts = i.l(); val lockId = i.s(); val hash = i.l()
415         // v1.3 kilitlerinde pairMode yok: eski kayıtlar da okunur (otomatik kabul edilir).
416         val pm = if (i.left() >= 4) i.i() else 0
417         val ctx = PredictionContext(axes, reg, bp, pm)
418         val pred = compose(ctx, seq, lastId, ts, lockId)
419         if (pred.lockHash != hash) {
420             FanLog.event(FanLog.ERROR, "${ErrorCodes.LOCK_TAMPERED} kilit özeti uyuşmuyor (#$seq); kilit atıldı")
421             open = null
422         } else open = OpenLock(pred, ctx)
423     }
424
425     /** Tüm durumun sıkıştırılmış anlık görüntüsü (undo halkası ve kontrol noktaları için). */
426     fun snapshot(): ByteArray {
427         val parts = exportParts()
428         val o = Out()
429         o.i(parts.size)
430         for (p in parts) { o.s(p.full); o.bytes(p.bytes) }
431         return Gz.pack(o.toBytes())
432     }
433
434     fun restore(snap: ByteArray) {
435         val i = In(Gz.unpack(snap))
436         val n = i.i()
437         val m = HashMap<String, ByteArray>()
438         repeat(n) { val k = i.s(); m[k] = i.bytes() }
439         // Mevcut nesneyi yerinde yeniden kurmak yerine, durumu okuyup yazar: önce ensembles sıfırlanır
440         for (e in ens) e.reset()
441         importParts(m)
442     }
443 }
```

[Dosya #46/84] Proje Yolu: app/src/main/java/fan/superai/v13/Explain.kt BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 8.587 B (8.4 KB) | Satır: 154 satır SHA-256: bd8f595485600fec9ffd2fc282cf320e…

```
1  package fan.superai.v13
2
3  /**
4   * Tahmin açıklaması. Metinlerin HEPSİ gerçek hesaplardan (tahmin anındaki bağlam + durum) üretilir;
5   * uydurma açıklama yoktur. Kilit geri yüklenirken aynı bağlam aynı metni üretir.
6   */
7  class Explainer(
8      private val b: FanBrain, private val ctx: PredictionContext, private val fin: Array<DoubleArray>,
9      private val d: Decision, private val mixes: Array<DoubleArray>, private val combined: CombinedSide,
10     private val contributions: List<ModelContribution>
11 ) {
12     private fun pct(x: Double) = "%${(x * 100).toInt()}"
13
14     private val a = b.alphabet
15     private val chosen = intArrayOf(d.numberIdx, d.bs, d.oe, combined.index)
16
17     private fun label(axis: Axis, cls: Int): String = when (axis) {
18         Axis.NUMBER -> "${a.number(cls)}"
19         Axis.BS -> BigSmall.fromIndex(cls).tr
20         Axis.OE -> OddEven.fromIndex(cls).tr
21         Axis.COMB -> CombinedSide.fromIndex(cls).display
22     }
```

[Dosya #46/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Explain.kt (Satır 23 ve sonrası)

```
23
24      /** Bir grubun (Kotlin/Python) kendi içinde ağırlıklı karışımı. null → grup yok. */
25      private fun groupMix(axis: Axis, g: Group): DoubleArray? {
26          val ai = ctx.axis(axis)
27          val idx = (0 until ai.size).filter { ai.groups[it] == g }
28          if (idx.isEmpty()) return null
29          val k = a.k(axis)
30          val w = DoubleArray(idx.size) { ai.weights[idx[it]] }
31          val s = w.sum().let { if (it <= 0) 1.0 else it }
32          val ds = Array(idx.size) { ai.dists[idx[it]] }
33          return Pool.mix(k, ds, DoubleArray(idx.size) { w[it] / s })
34      }
35
36      private fun disagreement(axis: Axis, cls: Int): Double {
37          val ai = ctx.axis(axis)
38          if (ai.size == 0) return 0.0
39          var n = 0; for (i in 0 until ai.size) if (Mx.argmax(ai.dists[i]) != cls) n++
40          return n.toDouble() / ai.size
41      }
42
43      fun build(): PredictionExplanation {
44          val np = ArrayList<String>(); val nn = ArrayList<String>()
45          val sp = ArrayList<String>(); val sn = ArrayList<String>(); val sd = ArrayList<String>()
46          numberEvidence(np, nn)
47          sideEvidence(sp, sn, sd)
48          return PredictionExplanation(np, nn, sp, sn, sd)
49      }
50
51      private fun numberEvidence(pos: MutableList<String>, neg: MutableList<String>) {
52          val ax = Axis.NUMBER; val ni = chosen[0]; val num = a.number(ni)
53          if (ctx.axis(ax).size == 0) { neg += "Rakam modeli çıktısı yok (tahmin düz dağılımdan)"; return }
54          for (g in Group.values()) {
55              val gm = groupMix(ax, g) ?: continue
56              val f = Mx.argmax(gm)
57              if (f == ni) pos += "${g.tr} modelleri $num rakamını öne çıkarıyor (grup olasılığı ${pct(gm[f])})"
58              else neg += "${g.tr} modelleri ${a.number(f)} rakamını öne çıkarıyor (grup ${pct(gm[f])}), nihai $num"
59          }
60          val dis = disagreement(ax, ni)
61          if (dis > 0.5) neg += "Model anlaşmazlığı yüksek: modellerin ${pct(dis)}'i farklı rakam seçiyor"
62          else pos += "Modellerin ${pct(1 - dis)}'i aynı rakamı ($num) seçiyor"
63          val ne = Mx.normEntropy(fin[0])
64          if (ne > 0.97) neg += "Entropi yüksek (${pct(ne)}): dağılım neredeyse düz"
65          else if (ne < 0.9) pos += "Entropi düşük (${pct(ne)}): dağılım belirgin"
66          val t2 = Mx.top2(fin[0]); val margin = fin[0][t2[0]] - fin[0][t2[1]]
67          if (margin < 0.02) neg += "İlk iki aday arasındaki fark çok küçük (${pct(margin)})"
68          // Rejim uyumu: bu rejimdeki gerçek sayı isabeti
69          val rp = b.regime.perf[ctx.regime]; val rn = rp[0].toInt()
70          val base = 1.0 / a.size
71          if (rn >= 20) {
72              val rate = rp[1] / rp[0]
73              if (rate > base) pos += "${V13.REGIME_NAMES[ctx.regime]} rejimi uyumlu: sayı isabeti ${pct(rate)} (n=$rn) > şans ${p
↳ ct(base)}"
74              else neg += "${V13.REGIME_NAMES[ctx.regime]} rejiminde sayı isabeti ${pct(rate)} (n=$rn) şansın (${pct(base)}) altın
↳ da/eşit"
75          } else neg += "${V13.REGIME_NAMES[ctx.regime]} rejiminde yeterli örnek yok (n=$rn)"
76          val ft = b.ens[0].finalTracker
77          if (ft.cal.total >= 50) {
78              val gap = ft.cal.gap()
79              if (gap < 0.08) pos += "Son kalibrasyon kabul edilebilir (boşluk ${pct(gap)})"
80              else neg += "Kalibrasyon boşluğu yüksek (${pct(gap)})"
81          } else neg += "Kalibrasyon için örnek az (n=${ft.cal.total})"
82          if (ft.roll.count >= 30) {
83              if (ft.recent > base) pos += "Son ${ft.roll.count} tahminde nihai isabet ${pct(ft.recent)} > şans ${pct(base)}"
84              else neg += "Son ${ft.roll.count} tahminde nihai isabet ${pct(ft.recent)} şansın altında/eşit"
85          }
86          // En çok katkı veren modeller (gerçek ağırlık × olasılık payı)
87          val top = contributions.filter { it.axis == ax }.sortedByDescending { it.share }.take(3)
88          if (top.isNotEmpty()) pos += "En büyük katkılar: " + top.joinToString(", ") { "${it.name} ${pct(it.share)}" }
89      }
90
91      private fun axisLine(axis: Axis, out: MutableList<String>) {
92          val ci = chosen[axis.ordinal]
93          val parts = ArrayList<String>()
94          for (g in Group.values()) {
95              val gm = groupMix(axis, g) ?: continue
96              val f = Mx.argmax(gm)
97              parts += "${g.tr} favori = ${label(axis, f)} (${pct(gm[f])})"
98          }
99          out += "${label(axis, ci)}: " + (if (parts.isEmpty()) "model yok" else parts.joinToString(", ")) +
100             " · nihai ${pct(if (axis == Axis.BS) d.marginalBs[ci] else d.marginalOe[ci])}"
101     }
102
103     private fun sideEvidence(pos: MutableList<String>, neg: MutableList<String>, det: MutableList<String>) {
104         for (ax in listOf(Axis.BS, Axis.OE)) {
105             axisLine(ax, det)
```

[Dosya #46/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Explain.kt (Satır 106 ve sonrası)

```
            val ci = chosen[ax.ordinal]
            val name = if (ax == Axis.BS) "Büyük/Küçük" else "Tek/Çift"
            for (g in Group.values()) {
                val gm = groupMix(ax, g) ?: continue
                val f = Mx.argmax(gm)
                if (f == ci) pos += "$name: ${g.tr} yan analizi ${label(ax, ci)} yönünde"
                else neg += "$name: ${g.tr} yan analizi ${label(ax, f)} diyor, nihai ${label(ax, ci)}"
            }
            val dis = disagreement(ax, ci)
            if (dis > 0.5) neg += "$name: yan modellerinin ${pct(dis)}'i nihai seçime katılmıyor"
            val ne = Mx.normEntropy(fin[ax.ordinal])
            if (ne > 0.985) neg += "$name entropisi yüksek (${pct(ne)}): iki seçenek neredeyse eşit"
            val py = (0 until ctx.axis(ax).size).firstOrNull { ctx.axis(ax).ids[it] == "py_side_kalip" }
            if (py != null) {
                val pk = ctx.axis(ax).dists[py]; val f = Mx.argmax(pk)
                det += "Kalıp 2.0 (Python) $name: ${label(ax, f)} (${pct(pk[f])})" + if (f == ci) " ✓" else ""
            }
            // Seri: yalnızca öğrenilmiş devam olasılığı
            val sm = b.side.model(ax, "ks_streak") as? StreakModel
            val last = b.mem.sym(ax, 1)
            if (sm != null && last >= 0) {
                val run = b.mem.run(ax); val pc = sm.continueProb(run)
                det += "$name serisi: $run × ${label(ax, last)}; öğrenilmiş devam olasılığı ${pct(pc)}"
            }
            val rp = b.regime.perf[ctx.regime]
            if (rp[0] >= 20) {
                val r = rp[2] / rp[0]
                det += "${V13.REGIME_NAMES[ctx.regime]} yan isabeti (ikisi birden): ${pct(r)} (n=${rp[0].toInt()}), şans %25"
            }
        }
        // Birleşik geçiş
        val lastC = b.mem.sym(Axis.COMB, 1)
        if (lastC >= 0) {
            val tp = b.mem.transitionProb(Axis.COMB, lastC)
            val f = Mx.argmax(tp)
            val line = "Birleşik geçiş: ${CombinedSide.fromIndex(lastC).display} sonrası en olası ${CombinedSide.fromIndex(f).display} (${pct(tp[f])})"
            det += line
            if (f == combined.index) pos += "Birleşik geçiş matrisi ${combined.display} seçimini destekliyor"
            else neg += "Birleşik geçiş matrisi ${CombinedSide.fromIndex(f).display} diyor, nihai ${combined.display}"
        }
        det += "Birleşik dağılım: " + (0 until 4).joinToString(" · ") { "${CombinedSide.fromIndex(it).display} ${pct(d.joint[it])}" }
        det += "Ürün/Doğrudan birleşik uzman payı: ${pct(ctx.blendProduct)} / ${pct(1 - ctx.blendProduct)}"
        val cf = b.ens[Axis.COMB.ordinal].finalTracker
        if (cf.cal.total >= 50) {
            if (cf.cal.gap() < 0.08) pos += "Yan kalibrasyonu kabul edilebilir (boşluk ${pct(cf.cal.gap())})"
            else neg += "Yan kalibrasyon boşluğu yüksek (${pct(cf.cal.gap())})"
        }
    }
}
```

[Dosya #47/84] Proje Yolu: app/src/main/java/fan/superai/v13/Insights.kt BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 4.501 B (4.4 KB) | Satır: 75 satır SHA-256: 6c8af31684dfc6e72d1525d878f54654…

```
package fan.superai.v13

/** FAN LAB ekranları için değişmez (iş parçacığı güvenli) görünüm — motor iş parçacığında üretilir. */
class StatsView(
    val total: Int, val numberAcc: Double, val top2Acc: Double, val bsAcc: Double, val oeAcc: Double, val sideAcc: Double,
    val numberLL: Double, val sideLL: Double, val baseNumber: Double, val baseBs: Double, val baseOe: Double, val baseSide: Double,
    val recentNumber: Double, val recentSide: Double, val recentN: Int, val blendProduct: Double
)

class RegimeRow(val name: String, val steps: Int, val n: Int, val numberAcc: Double, val top2Acc: Double, val sideAcc: Double, val current: Boolean)
class RegimeView(val current: String, val duration: Int, val rows: List<RegimeRow>, val transitions: DoubleArray, val history: List<IntArray>)

class DiversityView(
    val axis: String, val ids: List<String>, val names: List<String>, val corr: Array<DoubleArray>,
    val agree: Array<DoubleArray>, val disagreement: Double, val diversity: Double, val tau: Double
)

class CalView(
    val axis: String, val n: Int, val gap: Double, val brier: Double, val logLoss: Double, val entropy: Double,
    val accuracy: Double, val bins: List<ReliabilityBin>
)

class SeqView(
    val axis: String, val labels: List<String>, val counts: DoubleArray, val transitions: DoubleArray,
    val last: Int, val run: Int
```

[Dosya #47/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Insights.kt (Satır 26 ve sonrası)

```kotlin
)

class V13Insights(
    val count: Int, val stats: StatsView, val models: Map<String, List<ModelRow>>, val diversity: List<DiversityView>,
    val calibration: List<CalView>, val regime: RegimeView, val sequences: List<SeqView>,
    val leakChecks: Long, val leakViolations: Long, val leakMessages: List<String>, val tau: Map<String, Double>
) {
    companion object {
        fun build(b: FanBrain): V13Insights {
            val st = b.stats
            fun r(a: Int) = if (st.total == 0) 0.0 else a.toDouble() / st.total
            val stats = StatsView(st.total, r(st.numberHits), r(st.top2Hits), r(st.bsHits), r(st.oeHits), r(st.sideHits),
                if (st.total == 0) 0.0 else st.numberLL / st.total, if (st.total == 0) 0.0 else st.sideLL / st.total,
                r(st.baseNumber), r(st.baseBs), r(st.baseOe), r(st.baseSide),
                st.rollNumber.rate(), st.rollSide.rate(), st.rollNumber.count, st.blendProduct)
            val models = LinkedHashMap<String, List<ModelRow>>()
            val div = ArrayList<DiversityView>(); val cal = ArrayList<CalView>(); val tau = LinkedHashMap<String, Double>()
            for (ax in Axis.values()) {
                val e = b.ens[ax.ordinal]
                models[ax.name] = e.rows().sortedByDescending { it.weight }
                val ids = e.trackers.keys.toList()
                val n = ids.size
                val corr = Array(n) { i -> DoubleArray(n) { j -> if (i == j) 1.0 else e.corr(ids[i], ids[j]) } }
                val agree = Array(n) { i -> DoubleArray(n) { j -> if (i == j) 1.0 else e.agreement(ids[i], ids[j]) } }
                div += DiversityView(ax.name, ids, ids.map { e.name(it) }, corr, agree, e.disagreeEwma, e.diversityEwma, e.tau)
                val t = e.finalTracker
                cal += CalView(ax.name, t.n, t.cal.gap(), t.brier, t.logLoss, t.entropy, t.accuracy, t.cal.table())
                tau[ax.name] = e.tau
            }
            val rg = b.regime
            val rows = (0 until V13.REGIMES).map { i ->
                val p = rg.perf[i]; val n = p[0].toInt()
                RegimeRow(V13.REGIME_NAMES[i], rg.steps[i], n, if (n == 0) 0.0 else p[1] / n, if (n == 0) 0.0 else p[3] / n,
                    if (n == 0) 0.0 else p[2] / n, i == rg.current)
            }
            val regime = RegimeView(rg.name(), rg.duration, rows, rg.transitions.copyOf(), rg.history.map { it.copyOf() })
            val seqs = ArrayList<SeqView>()
            for (ax in listOf(Axis.BS, Axis.OE, Axis.COMB)) {
                val labels = (0 until b.alphabet.k(ax)).map {
                    when (ax) {
                        Axis.BS -> BigSmall.fromIndex(it).tr; Axis.OE -> OddEven.fromIndex(it).tr
                        else -> CombinedSide.fromIndex(it).display
                    }
                }
                seqs += SeqView(ax.name, labels, b.mem.counts(ax).copyOf(), b.mem.transition(ax).copyOf(), b.mem.sym(ax, 1), b.mem.run(ax))
            }
            return V13Insights(b.count, stats, models, div, cal, regime, seqs, b.guard.checks, b.guard.violations, b.guard.recent(), tau)
        }
    }
}
```

[Dosya #48/84] Proje Yolu: app/src/main/java/fan/superai/v13/PyAdapter.kt BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 2.228 B (2.2 KB) | Satır: 42 satır SHA-256: f9e03164c77e71c8fd88746e8871eefd…

```kotlin
package fan.superai.v13

/** Python rakam üyelerinin canlı son tahminleri. */
class PyNumberInfo(val ids: List<String>, val names: List<String>, val preds: List<DoubleArray>)

/** Bir tam/kuyruk replay'de yakalanan rakam üyesi dağılımları: [start] kayıt indeksinden itibaren, adım × üye. */
class PyCapture(val ids: List<String>, val start: Int, val steps: List<List<DoubleArray>>)

class PySideStep(val members: List<PySideMember>)

/** Yan meclisi yakalaması: [start] kayıt indeksinden itibaren adım başına üyeler; [next]: bir sonraki tahmin. */
class PySideCapture(val start: Int, val steps: List<PySideStep>, val next: PySideStep)

object PyAdapter {
    fun numberOutputs(info: PyNumberInfo?): List<ModelOutput> {
        if (info == null) return emptyList()
        val out = ArrayList<ModelOutput>()
        for (i in info.ids.indices) {
            val p = info.preds.getOrNull(i) ?: continue
            out += ModelOutput("py_${info.ids[i]}", "Python · ${info.names.getOrElse(i) { info.ids[i] }}", Group.PYTHON, number = p)
        }
        return out
    }

    fun sideOutputs(s: PySideStep?): List<ModelOutput> =
        s?.members?.map { ModelOutput(it.id, "Python yan · ${it.name}", Group.PYTHON, bs = it.bs, oe = it.oe, comb = it.comb) }
```

[Dosya #48/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/PyAdapter.kt (Satır 26 ve sonrası)

```
↳ ?: emptyList()

    /** [n] kayıt için adım başına Python verisi (yakalama yoksa null). */
    fun replayData(n: Int, num: PyCapture?, side: PySideCapture?, names: Map<String, String>): PythonReplayData {
        val steps = ArrayList<PythonStepData?>(n)
        for (i in 0 until n) {
            var ids: List<String> = emptyList(); var nm: List<String> = emptyList(); var dists: List<DoubleArray> = emptyList()
            if (num != null && i >= num.start && i - num.start < num.steps.size) {
                ids = num.ids; nm = num.ids.map { names[it] ?: it }; dists = num.steps[i - num.start]
            }
            var sm: List<PySideMember> = emptyList()
            if (side != null && i >= side.start && i - side.start < side.steps.size) sm = side.steps[i - side.start].members
            steps += if (ids.isEmpty() && sm.isEmpty()) null else PythonStepData(ids, nm, dists, sm)
        }
        return PythonReplayData(steps)
    }
}
```

[Dosya #49/84] Proje Yolu: app/src/main/java/fan/superai/v13/Replay.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 16.089 B (15.7 KB) | Satır: 288 satır SHA-256: 60025b5a20c44571df661639365d49ea…

```
package fan.superai.v13

import fan.superai.engine.Council
import fan.superai.engine.EngineConfig
import fan.superai.engine.FanEngine
import fan.superai.engine.History
import kotlin.math.ln
import kotlin.random.Random

/** Python tarafının bir adım için ürettiği ortak biçimli çıktılar. */
class PySideMember(val id: String, val name: String, val bs: DoubleArray, val oe: DoubleArray, val comb: DoubleArray)

class PythonStepData(
    val numberIds: List<String>, val numberNames: List<String>, val number: List<DoubleArray>,
    val side: List<PySideMember>
) {
    fun outputs(): List<ModelOutput> {
        val out = ArrayList<ModelOutput>()
        for (i in numberIds.indices) out += ModelOutput("py_${numberIds[i]}", "Python · ${numberNames[i]}", Group.PYTHON, number
↳ = number[i])
        for (m in side) out += ModelOutput(m.id, "Python yan · ${m.name}", Group.PYTHON, bs = m.bs, oe = m.oe, comb = m.comb)
        return out
    }
}

/** Replay için Python verisi: kayıt başına bir adım (bilinmiyorsa null). */
class PythonReplayData(val steps: List<PythonStepData?>)

class ReplayStep(
    val sequence: Int, val recordId: Long, val timestamp: Long, val predictionTimestamp: Long, val lastKnownRecordId: Long,
    val actualNumber: Int, val actual: IntArray, val predNumber: Int, val predSide: CombinedSide,
    val numberProbs: DoubleArray, val bsProbs: DoubleArray, val oeProbs: DoubleArray, val joint: DoubleArray,
    val regime: Int, val ev: EvaluationResult, val lockId: String, val ctx: PredictionContext?
)

class ReplayResult(
    val steps: List<ReplayStep>, val startedAt: Long, val finishedAt: Long, val processed: Int, val total: Int,
    val errors: List<String>, val leakChecks: Long, val leakViolations: Long, val cancelled: Boolean,
    val orderOk: Boolean, val includesPython: Boolean, val alphabet: Alphabet
)

interface ReplaySink {
    fun onStep(step: ReplayStep, pred: FinalPrediction, brain: FanBrain)
    fun onFinish(result: ReplayResult, brain: FanBrain)
}

/**
 * Tarihsel replay. Her adımda: yalnızca geçmiş → tahmin → LOCK → gerçek sonuç açılır → değerlendirme → model güncellemesi.
 * Kotlin meclisi KENDİ örneğiyle ve kayıtların yalnızca önek kopyalarıyla beslenir; yani gelecek veri fiziksel
 * olarak erişilebilir değildir. Sandbox brain canlı durumdan tamamen ayrıdır.
 */
object ReplayEngine {
    fun run(
        records: List<FanRecord>, brain: FanBrain, engineCfg: EngineConfig, python: PythonReplayData?,
        startAt: Int = 0, nowMs: () -> Long = { System.currentTimeMillis() },
        progress: ((Int, Int) -> Unit)? = null, cancel: (() -> Boolean)? = null,
        sink: ReplaySink? = null, keepContext: Boolean = false
    ): ReplayResult {
        val t0 = nowMs()
        val total = records.size
        val errors = ArrayList<String>()
        var checks = 0L; var violations = 0L
```

[Dosya #49/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Replay.kt (Satır 62 ve sonrası)

```
62          fun chk(ok: Boolean, msg: () -> String) {
63              checks++
64              if (!ok) { violations++; if (errors.size < 30) errors += "${ErrorCodes.LEAK_FUTURE} ${msg()}"; FanLog.event(FanLog.L
↳ EAKAGE_CHECK, msg()) }
65          }
66          // Sıra doğrulaması: kronolojik olmalı
67          var orderOk = true
68          for (i in 1 until total) if (records[i].recordId <= records[i - 1].recordId || records[i].timestamp < records[i - 1].tim
↳ estamp) {
69              orderOk = false
70              if (errors.size < 30) errors += "${ErrorCodes.SEQUENCE} kayıt sırası bozuk: #${records[i - 1].recordId} → #${records
↳ [i].recordId}"
71              break
72          }
73          FanLog.event(FanLog.REPLAY_STARTED, "$total kayıt, başlangıç=$startAt, python=${python != null}")
74          val alphabet = brain.alphabet
75          val vals = IntArray(total) { alphabet.idx(records[it].number) }
76          val times = LongArray(total) { records[it].timestamp }
77          val council = Council("Kotlin", FanEngine.kotlinMembers(), engineCfg)
78          val steps = ArrayList<ReplayStep>()
79          val prevQuiet = FanLog.quiet; val prevUndo = brain.recordUndo
80          FanLog.quiet = true; brain.recordUndo = false
81          var processed = startAt; var cancelled = false
82          try {
83              for (i in 0 until total) {
84                  if (cancel?.invoke() == true) { cancelled = true; break }
85                  // Gelecek fiziksel olarak yok: yalnızca [0, i) kopyalanır
86                  val hist = History(vals.copyOf(i), times.copyOf(i), i)
87                  council.predict(hist)
88                  if (i >= startAt) {
89                      chk(hist.values.size == i) { "geçmiş boyutu ${hist.values.size} ≠ $i (adım $i)" }
90                      chk(brain.count == i) { "brain bilinen kayıt ${brain.count} ≠ $i" }
91                      val inputs = ArrayList<ModelOutput>()
92                      for (v in council.memberViews()) inputs += ModelOutput("k_${v.id}", "Kotlin · ${v.name}", Group.KOTLIN, numb
↳ er = v.pred)
93                      python?.steps?.getOrNull(i)?.let { inputs += it.outputs() }
94                      val last = records.getOrNull(i - 1)
95                      val pred = brain.predict(inputs, last?.timestamp ?: records[i].timestamp, engineCfg.pairMode)
96                      chk(pred.predictionSequence == i) { "tahmin sırası ${pred.predictionSequence} ≠ $i" }
97                      chk(pred.lastKnownRecordId == (last?.recordId ?: 0L)) { "lastKnownRecordId ${pred.lastKnownRecordId} (adım $
↳ i)" }
98                      chk(pred.predictionTimestamp <= records[i].timestamp) { "tahmin zamanı gerçek sonuçtan sonra (adım $i)" }
99                      val ctx = brain.currentContext()
100                     val ev = brain.onActual(records[i])
101                     val step = ReplayStep(i, records[i].recordId, records[i].timestamp, pred.predictionTimestamp, pred.lastKnown
↳ RecordId,
102                         records[i].number, IntArray(4) { alphabet.actual(Axis.values()[it], records[i].number) },
103                         pred.number, pred.side, pred.numberDistribution.probabilities, pred.sideDistribution.bigSmall,
104                         pred.sideDistribution.oddEven, pred.sideDistribution.combined,
105                         V13.REGIME_NAMES.indexOf(pred.regime), ev, pred.predictionLockId, if (keepContext) ctx else null)
106                     steps += step
107                     sink?.onStep(step, pred, brain)
108                     processed = i + 1
109                 }
110                 council.update(History(vals.copyOf(i + 1), times.copyOf(i + 1), i + 1))
111                 if (i % 25 == 0) progress?.invoke(i + 1, total)
112             }
113         } finally { FanLog.quiet = prevQuiet; brain.recordUndo = prevUndo }
114         progress?.invoke(processed, total)
115         val result = ReplayResult(steps, t0, nowMs(), processed, total, errors, checks + brain.guard.checks, violations + brain.
↳ guard.violations,
116             cancelled, orderOk, python != null, alphabet)
117         FanLog.event(FanLog.LEAKAGE_CHECK, "replay denetimi: ${result.leakChecks} kontrol, ${result.leakViolations} ihlal")
118         FanLog.event(FanLog.REPLAY_COMPLETED, "işlenen=$processed/$total, tahmin=${steps.size}, hata=${errors.size}")
119         sink?.onFinish(result, brain)
120         return result
121     }
122 }
123
124 // ------------------------------------------------------------------------------------------------------
125 class MetricCI(val name: String, val value: Double, val lo: Double, val hi: Double, val baseline: Double, val higherIsBetter: Bo
↳ olean)
126 class PermTest(val name: String, val observed: Double, val pValue: Double, val percentile: Double, val baseline: Double)
127
128 class ReplaySummary(
129     val n: Int, val skipped: Int, val metrics: List<MetricCI>, val permutations: List<PermTest>,
130     val causalBaseline: Map<String, Double>
131 )
132
133 /** Bootstrap güven aralıkları, permutation testleri ve baseline'lar — replay sonuçları üzerinden. */
134 object ReplayStats {
135     private fun brierOf(p: DoubleArray, a: Int): Double = Mx.brier(p, a)
136
137     fun summarize(r: ReplayResult, skip: Int = 50, bootstrap: Int = 1000, permutations: Int = 1000, seed: Int = 8144): ReplaySum
↳ mary {
```

[Dosya #49/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Replay.kt (Satır 138 ve sonrası)

```
        val steps = r.steps.drop(skip.coerceAtMost(maxOf(0, r.steps.size - 1)).coerceAtLeast(0))
        val n = steps.size
        val size = r.alphabet.size
        if (n == 0) return ReplaySummary(0, skip, emptyList(), emptyList(), emptyMap())
        // Adım başına metrikler
        val names = listOf("Rakam Top-1", "Rakam Top-2", "Rakam LogLoss", "Rakam Brier",
            "Büyük/Küçük", "Tek/Çift", "Birleşik yan", "Yan LogLoss", "Yan Brier")
        val baselines = doubleArrayOf(1.0 / size, minOf(1.0, 2.0 / size), ln(size.toDouble()), 1.0 - 1.0 / size,
            0.5, 0.5, 0.25, ln(4.0), 0.75)
        val higher = booleanArrayOf(true, true, false, false, true, true, true, false, false)
        val m = names.size
        val data = Array(m) { DoubleArray(n) }
        for ((i, s) in steps.withIndex()) {
            val a = s.actual
            val o2 = Mx.top2(s.numberProbs)
            data[0][i] = if (Mx.argmax(s.numberProbs) == a[0]) 1.0 else 0.0
            data[1][i] = if (o2[0] == a[0] || o2[1] == a[0]) 1.0 else 0.0
            data[2][i] = Mx.logLoss(s.numberProbs, a[0])
            data[3][i] = brierOf(s.numberProbs, a[0])
            data[4][i] = if (Mx.argmax(s.bsProbs) == a[1]) 1.0 else 0.0
            data[5][i] = if (Mx.argmax(s.oeProbs) == a[2]) 1.0 else 0.0
            data[6][i] = if (s.predSide.index == a[3]) 1.0 else 0.0
            data[7][i] = Mx.logLoss(s.joint, a[3])
            data[8][i] = brierOf(s.joint, a[3])
        }
        val rnd = Random(seed)
        val boots = Array(m) { DoubleArray(bootstrap) }
        val sums = DoubleArray(m)
        repeat(bootstrap) { b ->
            java.util.Arrays.fill(sums, 0.0)
            repeat(n) { val j = rnd.nextInt(n); for (q in 0 until m) sums[q] += data[q][j] }
            for (q in 0 until m) boots[q][b] = sums[q] / n
        }
        val metrics = names.indices.map { q ->
            boots[q].sort()
            MetricCI(names[q], data[q].average(), boots[q][(bootstrap * 0.025).toInt().coerceIn(0, bootstrap - 1)],
                boots[q][(bootstrap * 0.975).toInt().coerceIn(0, bootstrap - 1)], baselines[q], higher[q])
        }
        // Permutation: tahminler sabit, gerçek sonuç sırası karıştırılır
        val perm = ArrayList<PermTest>()
        val targets = listOf(Triple("Rakam", 0, 0), Triple("Büyük/Küçük", 1, 4), Triple("Tek/Çift", 2, 5), Triple("Birleşik yan", 3, 6))
        for ((nm, ai, mi) in targets) {
            val actuals = IntArray(n) { steps[it].actual[ai] }
            val preds = IntArray(n) { i ->
                val s = steps[i]
                when (ai) { 0 -> Mx.argmax(s.numberProbs); 1 -> Mx.argmax(s.bsProbs); 2 -> Mx.argmax(s.oeProbs); else -> s.predSide.index }
            }
            val observed = data[mi].average()
            var ge = 0
            repeat(permutations) {
                for (i in n - 1 downTo 1) { val j = rnd.nextInt(i + 1); val t = actuals[i]; actuals[i] = actuals[j]; actuals[j] = t }
                var hit = 0
                for (i in 0 until n) if (preds[i] == actuals[i]) hit++
                if (hit.toDouble() / n >= observed - 1e-12) ge++
            }
            val p = (ge + 1.0) / (permutations + 1.0)
            perm += PermTest(nm, observed, p, 1.0 - p, baselines[mi])
        }
        // Nedensel çoğunluk baseline'ı (her adımda o ana kadarki en sık sınıf)
        val causal = LinkedHashMap<String, Double>()
        val all = r.steps
        for ((nm, ai) in listOf("Rakam" to 0, "Büyük/Küçük" to 1, "Tek/Çift" to 2, "Birleşik yan" to 3)) {
            val counts = IntArray(r.alphabet.k(Axis.values()[ai]))
            var hit = 0; var cnt = 0
            for ((i, s) in all.withIndex()) {
                if (i >= skip) { cnt++; if (Mx.argmaxInt(counts) == s.actual[ai]) hit++ }
                counts[s.actual[ai]]++
            }
            causal[nm] = if (cnt == 0) 0.0 else hit.toDouble() / cnt
        }
        return ReplaySummary(n, skip, metrics, perm, causal)
    }
}

// ----------------------------------------------------------------------------------------------------
class Scenario(val name: String, val groupFactor: Map<Group, Double> = emptyMap(),
               val modelFactor: Map<String, Double> = emptyMap(), val equal: Boolean = false)

class CfResult(val scenario: String, val number: Int, val side: CombinedSide, val numberProbs: DoubleArray,
               val joint: DoubleArray, val numberChanged: Boolean, val sideChanged: Boolean)

/** Karşı-olgusal analiz: yalnızca simülasyon; canlı state'e ASLA yazmaz. */
```

[Dosya #49/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Replay.kt (Satır 220 ve sonrası)

```
220 object Counterfactual {
221     fun scenarios(ctx: PredictionContext): List<Scenario> {
222         val out = ArrayList<Scenario>()
223         out += Scenario("Normal ensemble")
224         out += Scenario("Python yok", mapOf(Group.PYTHON to 0.0))
225         out += Scenario("Kotlin yok", mapOf(Group.KOTLIN to 0.0))
226         out += Scenario("Eşit ağırlık", equal = true)
227         for (ax in listOf(Axis.NUMBER, Axis.BS, Axis.COMB)) {
228             val a = ctx.axis(ax)
229             if (a.size == 0) continue
230             val top = (0 until a.size).maxByOrNull { a.weights[it] } ?: continue
231             val nm = a.names[top]
232             val tag = when (ax) { Axis.NUMBER -> "Rakam"; Axis.BS -> "Büyük/Küçük"; else -> "Birleşik" }
233             out += Scenario("$tag: $nm ağırlığı +%10", modelFactor = mapOf(a.ids[top] to 1.10))
234             out += Scenario("$tag: $nm ağırlığı −%10", modelFactor = mapOf(a.ids[top] to 0.90))
235         }
236         return out
237     }
238
239     fun apply(alphabet: Alphabet, ctx: PredictionContext, sc: Scenario): CfResult {
240         val fin = Array(4) { ai ->
241             val ax = Axis.values()[ai]; val a = ctx.axis(ax); val k = alphabet.k(ax)
242             if (a.size == 0) Mx.uniform(k) else {
243                 val w = DoubleArray(a.size) { i ->
244                     if (sc.equal) 1.0 else a.weights[i] * (sc.groupFactor[a.groups[i]] ?: 1.0) * (sc.modelFactor[a.ids[i]] ?: 1.
↳ 0)
245                 }
246                 val s = w.sum()
247                 if (s <= 0) Mx.uniform(k) else {
248                     for (i in w.indices) w[i] /= s
249                     Pool.shape(k, Pool.mix(k, a.dists, w), a.tau)
250                 }
251             }
252         }
253         val d = Decision.decide(fin, ctx.blendProduct)
254         val base = if (sc.name == "Normal ensemble") null else baseline(alphabet, ctx)
255         val side = CombinedSide.of(BigSmall.fromIndex(d.bs), OddEven.fromIndex(d.oe))
256         return CfResult(sc.name, alphabet.number(d.numberIdx), side, fin[0], d.joint,
257             base != null && base.number != alphabet.number(d.numberIdx), base != null && base.side != side)
258     }
259
260     private class Base(val number: Int, val side: CombinedSide)
261
262     private fun baseline(alphabet: Alphabet, ctx: PredictionContext): Base {
263         val fin = Array(4) { ai ->
264             val ax = Axis.values()[ai]; val a = ctx.axis(ax); val k = alphabet.k(ax)
265             if (a.size == 0) Mx.uniform(k) else Pool.shape(k, Pool.mix(k, a.dists, a.weights), a.tau)
266         }
267         val d = Decision.decide(fin, ctx.blendProduct)
268         return Base(alphabet.number(d.numberIdx), CombinedSide.of(BigSmall.fromIndex(d.bs), OddEven.fromIndex(d.oe)))
269     }
270
271     fun runAll(alphabet: Alphabet, ctx: PredictionContext): List<CfResult> = scenarios(ctx).map { apply(alphabet, ctx, it) }
272
273     /** Replay boyunca (bağlamı saklanmış adımlarda) bir senaryonun rakam/yan isabeti. */
274     class CfHistory(val scenario: String, val n: Int, val numberAcc: Double, val sideAcc: Double)
275
276     fun overReplay(r: ReplayResult, sc: Scenario, skip: Int = 50): CfHistory {
277         var n = 0; var nh = 0; var sh = 0
278         for ((i, s) in r.steps.withIndex()) {
279             val ctx = s.ctx ?: continue
280             if (i < skip) continue
281             val res = apply(r.alphabet, ctx, sc)
282             n++
283             if (res.number == s.actualNumber) nh++
284             if (res.side.index == s.actual[3]) sh++
285         }
286         return CfHistory(sc.name, n, if (n == 0) 0.0 else nh.toDouble() / n, if (n == 0) 0.0 else sh.toDouble() / n)
287     }
288 }
```

[Dosya #50/84] Proje Yolu: app/src/main/java/fan/superai/v13/Runtime.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 15.259 B (14.9 KB) | Satır: 282 satır SHA-256: 060a2414e0e9ed278afa7cde3e37afc1…

```
1 package fan.superai.v13
2
3 import fan.superai.engine.EngineConfig
4 import fan.superai.engine.FanEngine
5 import fan.superai.engine.PythonBridge
6 import fan.superai.v13.db.PredictionRecordEntity
7 import fan.superai.v13.db.ReplayStateEntity
8 import fan.superai.v13.db.V13Store
9 import kotlinx.coroutines.flow.MutableStateFlow
```

[Dosya #50/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Runtime.kt (Satır 10 ve sonrası)

```
10 import kotlinx.coroutines.flow.StateFlow
11 import java.util.zip.CRC32
12
13 class V13Status(val phase: String = "", val progress: Float = 0f, val message: String = "", val error: String? = null)
14
15 /** Araştırma (RESEARCH/REPLAY) modu sonucu. Canlı duruma ASLA yazılmaz. */
16 class ResearchOutcome(
17     val result: ReplayResult, val summary: ReplaySummary, val counterfactual: List<Counterfactual.CfHistory>,
18     val lastCounterfactual: List<CfResult>, val fingerprint: Long, val durationMs: Long, val insights: V13Insights
19 )
20
21 class V13Env(
22     val engine: FanEngine, val bridge: PythonBridge?, val cfg: EngineConfig, val records: () -> List<FanRecord>
23 )
24
25 /**
26  * v1.3 çalışma zamanı: Room kalıcılığı + FanBrain + Python/Kotlin girdilerinin toplanması.
27  * [research] dışındaki tüm çağrılar motor iş parçacığından yapılır.
28  */
29 class V13Runtime(private val store: V13Store, private val clock: () -> Long = { System.currentTimeMillis() / 1000 }) {
30     val alphabet = Alphabet()
31     @Volatile var brain = FanBrain(); private set
32
33     private val _final = MutableStateFlow<FinalPrediction?>(null)
34     val final: StateFlow<FinalPrediction?> = _final
35     private val _insights = MutableStateFlow<V13Insights?>(null)
36     val insights: StateFlow<V13Insights?> = _insights
37     private val _status = MutableStateFlow(V13Status())
38     val status: StateFlow<V13Status> = _status
39     private val _research = MutableStateFlow<ResearchOutcome?>(null)
40     val researchResult: StateFlow<ResearchOutcome?> = _research
41     private val _researchBusy = MutableStateFlow<String?>(null)
42     val researchBusy: StateFlow<String?> = _researchBusy
43     @Volatile private var dirty = false
44
45     class Plan(val kind: String, val brain: FanBrain?, val startAt: Int, val reason: String) {
46         val needsPythonMembers: Boolean get() = kind != "RESUME"
47     }
48
49     val store0: V13Store get() = store
50
51     // ---------------------------------------------------------------- açılış
52     /** Kayıtlı durumu inceler: devam / kuyruk yakalama / tam replay. Python replay'inden ÖNCE çağrılır. */
53     fun prepare(records: List<FanRecord>, forceFull: Boolean = false): Plan {
54         try { store.syncRecords(records) } catch (e: Exception) { FanLog.event(FanLog.ERROR, "${ErrorCodes.DB} kayıtlar eşitlene
↳ medi: ${e.message}") }
55         if (forceFull) return Plan("FULL", null, 0, "manuel Full Replay")
56         val parts = try { store.loadParts() } catch (e: Exception) {
57             FanLog.event(FanLog.ERROR, "${ErrorCodes.DB} durum okunamadı: ${e.message}"); return Plan("FULL", null, 0, "veritaba
↳ nı okunamadı")
58         }
59         if (parts.isEmpty()) return Plan("FULL", null, 0, "ilk kurulum")
60         return try {
61             val b = FanBrain()
62             b.importParts(parts)
63             val n = b.count
64             val ok = n <= records.size && (n == 0 || (b.mem.lastRecordId == records[n - 1].recordId &&
65                 b.mem.sym(Axis.NUMBER, 1) == alphabet.idx(records[n - 1].number)))
66             when {
67                 !ok -> Plan("FULL", null, 0, "kayıtlı durum veriyle uyuşmuyor")
68                 n == records.size -> Plan("RESUME", b, n, "durum güncel")
69                 else -> Plan("CATCHUP", b, n, "${records.size - n} yeni kayıt")
70             }
71         } catch (e: Exception) {
72             FanLog.event(FanLog.ERROR, "${ErrorCodes.STATE_LOAD} ${e.message}")
73             Plan("FULL", null, 0, "durum bozuk")
74         }
75     }
76
77     private fun status(phase: String, p: Float, msg: String) { _status.value = V13Status(phase, p, msg) }
78
79     /** Python replay + Kotlin yeniden kurma BİTTİKTEN sonra çağrılır. */
80     fun finish(plan: Plan, env: V13Env, clearHistory: Boolean = false) {
81         val records = env.records()
82         try {
83             val b = plan.brain ?: FanBrain()
84             if (plan.kind == "FULL") {
85                 store.clearStates()
86                 if (clearHistory) store.clearPredictions() else store.clearReplayPredictions()
87             }
88             brain = b
89             val data = syncPython(records, env.bridge, plan.startAt, plan.needsPythonMembers)
90             if (plan.kind != "RESUME" && records.size > plan.startAt) {
91                 status("REPLAY", 0f, "${plan.kind}: ${records.size - plan.startAt} kayıt işleniyor…")
92                 val rows = ArrayList<PredictionRecordEntity>()
```

[Dosya #50/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Runtime.kt (Satır 93 ve sonrası)

```
93                  val sink = object : ReplaySink {
94                      override fun onStep(step: ReplayStep, pred: FinalPrediction, brain: FanBrain) { rows += store.entityFor(V13Store.REPLAY, pred, step.ev) }
95                      override fun onFinish(result: ReplayResult, brain: FanBrain) {}
96                  }
97                  val t0 = System.currentTimeMillis()
98                  val res = ReplayEngine.run(records, b, env.cfg, data, startAt = plan.startAt, sink = sink,
99                      progress = { i, n -> status("REPLAY", if (n == 0) 0f else i.toFloat() / n, "$i / $n") })
100                 store.db.runInTransaction {
101                     store.appendPredictions(rows)
102                     store.saveReplay(ReplayStateEntity(mode = plan.kind, startedAt = t0, finishedAt = System.currentTimeMillis(),
103                         processed = res.processed, total = res.total, status = if (res.errors.isEmpty()) "OK" else "UYARI",
104                         leakChecks = res.leakChecks, leakViolations = res.leakViolations,
105                         summary = "${plan.reason}; tahmin=${rows.size}; python=${data != null}"))
106                 }
107             }
108             dirty = false
109             if (b.open == null) predictLive(env) else persistAll()
110             publish()
111             _status.value = V13Status("READY", 1f, "v1.4 hazır (${plan.kind}: ${plan.reason})")
112         } catch (e: Throwable) {
113             fail("finish", e)
114         }
115     }
116
117     private fun syncPython(records: List<FanRecord>, bridge: PythonBridge?, startAt: Int, needData: Boolean): PythonReplayData? {
118         if (bridge == null) return null
119         val n = records.size
120         val vals = IntArray(n) { alphabet.idx(records[it].number) }
121         val times = LongArray(n) { records[it].timestamp }
122         val bs = IntArray(n) { alphabet.bsOf(records[it].number) }
123         val oe = IntArray(n) { alphabet.oeOf(records[it].number) }
124         var side: PySideCapture? = try { bridge.sideSync(bs, oe, times) } catch (e: Throwable) {
125             FanLog.event(FanLog.ERROR, "${ErrorCodes.PYTHON} yan meclis: ${e.message}"); null
126         }
127         if (!needData) return null
128         try {
129             var cap = bridge.lastCapture
130             if (cap == null || cap.start > startAt || cap.start + cap.steps.size < n) cap = bridge.sandboxReplay(vals, times)
131             if (side != null && side.start > startAt) side = bridge.sideSync(bs, oe, times, sandbox = true)
132             val names = try { bridge.memberInfo()?.let { it.ids.zip(it.names).toMap() } ?: emptyMap() } catch (e: Throwable) { emptyMap() }
133             bridge.lastCapture = null
134             return PyAdapter.replayData(n, cap, side, names)
135         } catch (e: Throwable) {
136             FanLog.event(FanLog.ERROR, "${ErrorCodes.PYTHON} üye dağılımları alınamadı: ${e.message}")
137             return null
138         }
139     }
140
141     // ------------------------------------------------------------------ tahmin
142     private fun liveInputs(env: V13Env): List<ModelOutput> {
143         val inputs = ArrayList<ModelOutput>()
144         for (v in env.engine.kotlin.memberViews()) inputs += ModelOutput("k_${v.id}", "Kotlin · ${v.name}", Group.KOTLIN, number = v.pred)
145         val br = env.bridge
146         if (br != null) {
147             try {
148                 inputs += PyAdapter.numberOutputs(br.memberInfo())
149                 inputs += PyAdapter.sideOutputs(br.sideNext())
150             } catch (e: Throwable) { FanLog.event(FanLog.ERROR, "${ErrorCodes.PYTHON} canlı girdi: ${e.message}") }
151         }
152         return inputs
153     }
154
155     private fun predictLive(env: V13Env) {
156         // v1.4: tek/çift (kaç rakam gösterileceği) kararı ayarlardan gelir.
157         val p = brain.predict(liveInputs(env), clock(), env.cfg.pairMode)
158         store.db.runInTransaction {
159             store.savePrediction(V13Store.LIVE, p, true)
160             persistAll()
161         }
162     }
163
164     private fun persistAll() { store.saveParts(brain.exportParts(), brain.count) }
165
166     private fun publish() {
167         _final.value = brain.open?.prediction
168         _insights.value = try { V13Insights.build(brain) } catch (e: Throwable) { _insights.value }
169     }
170
171     private fun fail(where: String, e: Throwable) {
172         dirty = true
```

[Dosya #50/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Runtime.kt (Satır 173 ve sonrası)

```
173         FanLog.event(FanLog.ERROR, "v13/$where: ${e.javaClass.simpleName}: ${e.message}")
174         _status.value = V13Status("ERROR", 0f, "", "v1.4 $where: ${e.message}")
175     }
176
177     // ------------------------------------------------------------------ canlı akış
178     /** Yeni gerçek sonuç: kilitli tahmin değerlendirilir, öğrenilir, kalıcılaştırılır, yeni tahmin KİLİTLENİR. */
179     fun onNewRecord(rec: FanRecord, env: V13Env) {
180         try {
181             if (dirty) { resync(env); return }
182             val bridge = env.bridge
183             try { bridge?.sideStep(alphabet.bsOf(rec.number), alphabet.oeOf(rec.number), rec.timestamp) }
184             catch (e: Throwable) { FanLog.event(FanLog.ERROR, "${ErrorCodes.PYTHON} side_step: ${e.message}") }
185             val before = brain.count
186             val ev = brain.onActual(rec)
187             store.db.runInTransaction {
188                 store.appendRecord(rec)
189                 store.resolve(V13Store.LIVE, ev)
190                 brain.lastUndoSnapshot()?.let { if (it.first == before) store.saveUndo(it.first, it.second) }
191             }
192             predictLive(env)
193             publish()
194             _status.value = V13Status("READY", 1f, "#${rec.recordId} işlendi")
195         } catch (e: Throwable) { fail("onNewRecord", e) }
196     }
197
198     /** DEL: durumu [newCount] kayda döndürür; tahmin yeniden ÜRETİLMEZ, kilitli olan geri gelir. */
199     fun onUndo(newCount: Int, env: V13Env) {
200         try {
201             if (dirty) { resync(env); return }
202             var ok = brain.undoTo(newCount)
203             if (!ok) {
204                 val snap = store.loadUndo(newCount)
205                 if (snap != null) ok = try { brain.restore(snap); true } catch (e: Exception) { false }
206             }
207             if (!ok) { resync(env); return }
208             val recs = env.records()
209             store.db.runInTransaction {
210                 store.rollbackTo(newCount)
211                 store.syncRecords(recs)
212             }
213             val br = env.bridge
214             if (br != null && br.sideUndoTo(newCount) == null) {
215                 try {
216                     br.sideSync(IntArray(recs.size) { alphabet.bsOf(recs[it].number) }, IntArray(recs.size) { alphabet.oeOf(recs
    [it].number) },
217                         LongArray(recs.size) { recs[it].timestamp })
218                 } catch (e: Throwable) { FanLog.event(FanLog.ERROR, "${ErrorCodes.PYTHON} side_undo: ${e.message}") }
219             }
220             if (brain.open == null) predictLive(env) else store.db.runInTransaction {
221                 store.savePrediction(V13Store.LIVE, brain.open!!.prediction, true); persistAll()
222             }
223             publish()
224             _status.value = V13Status("READY", 1f, "geri alındı → $newCount")
225         } catch (e: Throwable) { fail("onUndo", e) }
226     }
227
228     /** Durum bozulduğunda ya da manuel olarak: güvenli tam yeniden kurulum. */
229     fun resync(env: V13Env) {
230         FanLog.event(FanLog.REPLAY_STARTED, "resync (tam yeniden kurma)")
231         env.bridge?.lastCapture = null
232         finish(prepare(env.records(), forceFull = true), env)
233     }
234
235     // ------------------------------------------------------------------ RESEARCH (sandbox)
236     /** Canlı duruma dokunmaz: ayrı brain, ayrı Kotlin meclisi, Python sandbox. */
237     fun research(records: List<FanRecord>, cfg: EngineConfig, bridge: PythonBridge?): ResearchOutcome? {
238         if (_researchBusy.value != null) return _research.value
239         _researchBusy.value = "Replay hazırlanıyor…"
240         try {
241             val t0 = System.currentTimeMillis()
242             val n = records.size
243             val vals = IntArray(n) { alphabet.idx(records[it].number) }
244             val times = LongArray(n) { records[it].timestamp }
245             var data: PythonReplayData? = null
246             if (bridge != null) {
247                 try {
248                     _researchBusy.value = "Python sandbox oynatılıyor…"
249                     val cap = bridge.sandboxReplay(vals, times)
250                     val side = bridge.sideSync(IntArray(n) { alphabet.bsOf(records[it].number) },
251                         IntArray(n) { alphabet.oeOf(records[it].number) }, times, sandbox = true)
252                     val names = try { bridge.memberInfo()?.let { it.ids.zip(it.names).toMap() } ?: emptyMap() } catch (e: Throwa
    ble) { emptyMap() }
253                     data = PyAdapter.replayData(n, cap, side, names)
254                 } catch (e: Throwable) { FanLog.event(FanLog.ERROR, "${ErrorCodes.PYTHON} sandbox: ${e.message}") }
255             }
```

[Dosya #50/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/Runtime.kt (Satır 256 ve sonrası)

```
256             val b = FanBrain(); b.mode = Mode.REPLAY
257             val res = ReplayEngine.run(records, b, cfg, data, keepContext = true,
258                 progress = { i, total -> _researchBusy.value = "Replay $i / $total" })
259             _researchBusy.value = "İstatistikler (bootstrap/permutation)…"
260             val summary = ReplayStats.summarize(res)
261             val cf = listOf(Scenario("Normal ensemble"), Scenario("Python yok", mapOf(Group.PYTHON to 0.0)),
262                 Scenario("Kotlin yok", mapOf(Group.KOTLIN to 0.0)), Scenario("Eşit ağırlık", equal = true)).map { Counterfactual
 ↳ .overReplay(res, it) }
263             val lastCf = res.steps.lastOrNull()?.ctx?.let { Counterfactual.runAll(alphabet, it) } ?: emptyList()
264             val crc = CRC32(); for (s in res.steps) crc.update(s.lockId.toByteArray())
265             val out = ResearchOutcome(res, summary, cf, lastCf, crc.value, System.currentTimeMillis() - t0, V13Insights.build(b)
 ↳ )
266             try {
267                 store.saveReplay(ReplayStateEntity(mode = "RESEARCH", startedAt = t0, finishedAt = System.currentTimeMillis(),
268                     processed = res.processed, total = res.total, status = if (res.errors.isEmpty() && res.leakViolations == 0L)
 ↳  "OK" else "UYARI",
269                     leakChecks = res.leakChecks, leakViolations = res.leakViolations,
270                     summary = "parmak izi=${java.lang.Long.toHexString(out.fingerprint)}; python=${data != null}"))
271             } catch (e: Exception) { FanLog.event(FanLog.ERROR, "${ErrorCodes.DB} replay kaydı: ${e.message}") }
272             _research.value = out
273             return out
274         } catch (e: Throwable) {
275             FanLog.event(FanLog.ERROR, "${ErrorCodes.REPLAY} ${e.message}")
276             return null
277         } finally { _researchBusy.value = null }
278     }
279
280     fun liveContext(): PredictionContext? = brain.currentContext()
281     fun alphabetOf(): Alphabet = alphabet
282 }
```

[Dosya #51/84] Proje Yolu: app/src/main/java/fan/superai/v13/StateIO.kt BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 4.182 B (4.1 KB) | Satır: 96 satır SHA-256: 687eb4b2d35b48d48c284d116c937099…

```
1  package fan.superai.v13
2
3  import java.io.ByteArrayInputStream
4  import java.io.ByteArrayOutputStream
5  import java.io.DataInputStream
6  import java.io.DataOutputStream
7  import java.util.zip.GZIPInputStream
8  import java.util.zip.GZIPOutputStream
9
10 /** Küçük, sürümlü ikili serileştirme (JSON yok, gereksiz büyük dosya yok). */
11 class Out {
12     private val bos = ByteArrayOutputStream()
13     private val d = DataOutputStream(bos)
14     fun i(v: Int) = d.writeInt(v)
15     fun l(v: Long) = d.writeLong(v)
16     fun d(v: Double) = d.writeDouble(v)
17     fun b(v: Boolean) = d.writeBoolean(v)
18     fun s(v: String) = d.writeUTF(v)
19     fun da(a: DoubleArray) { d.writeInt(a.size); for (x in a) d.writeDouble(x) }
20     fun ia(a: IntArray) { d.writeInt(a.size); for (x in a) d.writeInt(x) }
21     fun ba(a: BooleanArray) { d.writeInt(a.size); for (x in a) d.writeBoolean(x) }
22     fun bytes(a: ByteArray) { d.writeInt(a.size); d.write(a) }
23     fun toBytes(): ByteArray { d.flush(); return bos.toByteArray() }
24 }
25
26 class In(data: ByteArray) {
27     private val d = DataInputStream(ByteArrayInputStream(data))
28     fun i() = d.readInt()
29     fun l() = d.readLong()
30     fun d() = d.readDouble()
31     fun b() = d.readBoolean()
32     fun s(): String = d.readUTF()
33     fun da(): DoubleArray = DoubleArray(d.readInt()) { d.readDouble() }
34     fun ia(): IntArray = IntArray(d.readInt()) { d.readInt() }
35     fun ba(): BooleanArray = BooleanArray(d.readInt()) { d.readBoolean() }
36     fun bytes(): ByteArray { val n = d.readInt(); val a = ByteArray(n); d.readFully(a); return a }
37     /** Okunmayı bekleyen bayt sayısı (sürüm yükseltmelerinde isteğe bağlı alanlar için). */
38     fun left(): Int = d.available()
39     /** Mevcut diziyi yerinde doldurur (boyut uyuşmazsa hata). */
40     fun fill(target: DoubleArray) {
41         val a = da()
42         if (a.size != target.size) throw FanException(ErrorCodes.STATE_LOAD, "dizi boyutu ${a.size} != ${target.size}")
43         a.copyInto(target)
44     }
45 }
46
47 object Gz {
48     fun pack(b: ByteArray): ByteArray {
49         val bos = ByteArrayOutputStream()
```

[Dosya #51/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/StateIO.kt (Satır 50 ve sonrası)

```
        GZIPOutputStream(bos).use { it.write(b) }
        return bos.toByteArray()
    }
    fun unpack(b: ByteArray): ByteArray = GZIPInputStream(ByteArrayInputStream(b)).use { it.readBytes() }
}

/** Gereksiz büyük log üretmeyen olay günlüğü. Android Log bağlantısı uygulama tarafında yapılır. */
object FanLog {
    const val NEW_RECORD = "NEW_RECORD"
    const val PREDICTION_CREATED = "PREDICTION_CREATED"
    const val PREDICTION_LOCKED = "PREDICTION_LOCKED"
    const val ACTUAL_RESULT_RECEIVED = "ACTUAL_RESULT_RECEIVED"
    const val MODEL_UPDATED = "MODEL_UPDATED"
    const val REGIME_CHANGED = "REGIME_CHANGED"
    const val CALIBRATION_UPDATED = "CALIBRATION_UPDATED"
    const val ENSEMBLE_UPDATED = "ENSEMBLE_UPDATED"
    const val STATE_PERSISTED = "STATE_PERSISTED"
    const val REPLAY_STARTED = "REPLAY_STARTED"
    const val REPLAY_COMPLETED = "REPLAY_COMPLETED"
    const val LEAKAGE_CHECK = "LEAKAGE_CHECK"
    const val ERROR = "ERROR"

    class Entry(val time: Long, val event: String, val message: String)

    private const val CAP = 200
    private val ring = ArrayDeque<Entry>()
    /** Gürültülü olaylar (adım başına) yalnızca bellek halkasına yazılır; sink'e ise önemli olaylar gider. */
    @Volatile var sink: ((String, String) -> Unit)? = null
    private val quietTl = ThreadLocal<Boolean>()
    /** Replay sırasında adım başı olayları bastırır (yalnızca çağıran iş parçacığı için). */
    var quiet: Boolean
        get() = quietTl.get() == true
        set(v) { quietTl.set(v) }

    private val noisy = setOf(NEW_RECORD, PREDICTION_CREATED, PREDICTION_LOCKED, ACTUAL_RESULT_RECEIVED,
        MODEL_UPDATED, CALIBRATION_UPDATED, ENSEMBLE_UPDATED, STATE_PERSISTED)

    @Synchronized fun event(name: String, msg: String) {
        if (quiet && name in noisy) return
        ring.addLast(Entry(System.currentTimeMillis(), name, msg))
        while (ring.size > CAP) ring.removeFirst()
        sink?.invoke(name, msg)
    }

    @Synchronized fun recent(n: Int = 60): List<Entry> = ring.toList().takeLast(n)
    @Synchronized fun clear() { ring.clear() }
}
```

[Dosya #52/84] Proje Yolu: app/src/main/java/fan/superai/v13/db/Entities.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 3.222 B (3.1 KB) | Satır: 120 satır SHA-256: 4d004af1215eee33ab7bb3544ae3225a…

```
package fan.superai.v13.db

import androidx.room.Entity
import androidx.room.Index
import androidx.room.PrimaryKey

/** Ham veri: recordId, timestamp, number, bigSmall, oddEven, combinedSide. */
@Entity(tableName = "FanRecord", indices = [Index("timestamp")])
data class FanRecordEntity(
    @PrimaryKey val recordId: Long,
    val timestamp: Long,
    val number: Int,
    val bigSmall: String,
    val oddEven: String,
    val combinedSide: String
)

/** Her tahmin (LIVE / REPLAY), kilit bilgileri ve — sonuç gelince — değerlendirme. */
@Entity(tableName = "PredictionRecord", indices = [Index(value = ["mode", "sequence"], unique = true)])
data class PredictionRecordEntity(
    @PrimaryKey(autoGenerate = true) val id: Long = 0,
    val mode: String,
    val sequence: Int,
    val lockId: String,
    val lockHash: Long,
    val predictionTimestamp: Long,
    val lastKnownRecordId: Long,
    val predictedNumber: Int,
    val bigSmall: String,
    val oddEven: String,
    val sideLabel: String,
    val confidence: Double,
```

[Dosya #52/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/db/Entities.kt (Satır 33 ve sonrası)

```
33      val sideConfidence: Double,
34      val entropy: Double,
35      val regime: String,
36      val ensembleVersion: String,
37      val numberDist: String,
38      val sideDist: String,
39      val actualRecordId: Long? = null,
40      val actualNumber: Int? = null,
41      val actualTimestamp: Long? = null,
42      val numberHit: Boolean? = null,
43      val top2Hit: Boolean? = null,
44      val bigSmallHit: Boolean? = null,
45      val oddEvenHit: Boolean? = null,
46      val sideHit: Boolean? = null,
47      val numberLogLoss: Double? = null,
48      val sideLogLoss: Double? = null
49  )
50
51  @Entity(tableName = "PredictionExplanation")
52  data class PredictionExplanationEntity(
53      @PrimaryKey val sequence: Int,
54      val lockId: String,
55      val payload: String
56  )
57
58  @Entity(tableName = "ModelState")
59  data class ModelStateEntity(
60      @PrimaryKey val stateKey: String,
61      val blob: ByteArray,
62      val updatedAt: Long,
63      val recordCount: Int
64  )
65
66  @Entity(tableName = "ModelPerformance")
67  data class ModelPerformanceEntity(
68      @PrimaryKey val stateKey: String,
69      val axis: String,
70      val modelId: String,
71      val name: String,
72      val grp: String,
73      val n: Int,
74      val top1: Int,
75      val top2: Int,
76      val logLoss: Double,
77      val brier: Double,
78      val entropy: Double,
79      val recent: Double,
80      val calGap: Double,
81      val weight: Double,
82      val gain: Double,
83      val blob: ByteArray,
84      val updatedAt: Long
85  )
86
87  @Entity(tableName = "RegimeState")
88  data class RegimeStateEntity(
89      @PrimaryKey val stateKey: String,
90      val blob: ByteArray,
91      val updatedAt: Long
92  )
93
94  @Entity(tableName = "CalibrationState")
95  data class CalibrationStateEntity(
96      @PrimaryKey val stateKey: String,
97      val blob: ByteArray,
98      val updatedAt: Long
99  )
100
101 @Entity(tableName = "EnsembleState")
102 data class EnsembleStateEntity(
103     @PrimaryKey val stateKey: String,
104     val blob: ByteArray,
105     val updatedAt: Long
106 )
107
108 @Entity(tableName = "ReplayState")
109 data class ReplayStateEntity(
110     @PrimaryKey(autoGenerate = true) val id: Long = 0,
111     val mode: String,
112     val startedAt: Long,
113     val finishedAt: Long,
114     val processed: Int,
115     val total: Int,
116     val status: String,
117     val leakChecks: Long,
```

[Dosya #52/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/db/Entities.kt (Satır 118 ve sonrası)

```
    val leakViolations: Long,
    val summary: String
)
```

[Dosya #53/84] Proje Yolu: app/src/main/java/fan/superai/v13/db/Dao.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 5.182 B (5.1 KB) | Satır: 72 satır SHA-256: fa882103cb514feb76694127647a2342…

```
package fan.superai.v13.db

import androidx.room.Dao
import androidx.room.Insert
import androidx.room.OnConflictStrategy
import androidx.room.Query

@Dao
interface V13Dao {
    // ---- FanRecord
    @Insert(onConflict = OnConflictStrategy.REPLACE) fun upsertRecords(list: List<FanRecordEntity>)
    @Query("SELECT COUNT(*) FROM FanRecord") fun recordCount(): Int
    @Query("SELECT * FROM FanRecord ORDER BY recordId") fun allRecords(): List<FanRecordEntity>
    @Query("DELETE FROM FanRecord WHERE recordId > :id") fun deleteRecordsAfter(id: Long)
    @Query("DELETE FROM FanRecord") fun clearRecords()

    // ---- PredictionRecord
    @Insert(onConflict = OnConflictStrategy.REPLACE) fun upsertPrediction(p: PredictionRecordEntity)
    @Insert(onConflict = OnConflictStrategy.REPLACE) fun upsertPredictions(list: List<PredictionRecordEntity>)
    @Query("SELECT * FROM PredictionRecord WHERE mode = :mode AND sequence = :seq LIMIT 1") fun predictionAt(mode: String, seq: Int): PredictionRecordEntity?
    @Query("SELECT * FROM PredictionRecord WHERE mode = :mode ORDER BY sequence DESC LIMIT :limit OFFSET :offset")
    fun predictionPage(mode: String, limit: Int, offset: Int): List<PredictionRecordEntity>
    @Query("SELECT * FROM PredictionRecord WHERE mode = 'LIVE' OR sequence NOT IN (SELECT sequence FROM PredictionRecord WHERE mode = 'LIVE') " +
        "ORDER BY sequence DESC, id DESC LIMIT :limit OFFSET :offset")
    fun predictionPageAll(limit: Int, offset: Int): List<PredictionRecordEntity>
    @Query("SELECT COUNT(*) FROM PredictionRecord WHERE mode = 'LIVE' OR sequence NOT IN (SELECT sequence FROM PredictionRecord WHERE mode = 'LIVE')")
    fun predictionCountAll(): Int
    @Query("SELECT COUNT(*) FROM PredictionRecord WHERE mode = :mode") fun predictionCount(mode: String): Int
    @Query("DELETE FROM PredictionRecord WHERE mode = :mode AND sequence > :seq") fun deletePredictionsAfter(mode: String, seq: Int)
    @Query("DELETE FROM PredictionRecord WHERE mode = :mode") fun clearPredictions(mode: String)
    @Query("UPDATE PredictionRecord SET actualRecordId = NULL, actualNumber = NULL, actualTimestamp = NULL, numberHit = NULL, top2Hit = NULL, " +
        "bigSmallHit = NULL, oddEvenHit = NULL, sideHit = NULL, numberLogLoss = NULL, sideLogLoss = NULL WHERE mode = :mode AND sequence = :seq")
    fun clearActual(mode: String, seq: Int)
    @Query("SELECT COUNT(*) FROM PredictionRecord WHERE mode = :mode AND actualNumber IS NOT NULL") fun evaluatedCount(mode: String): Int

    // ---- PredictionExplanation
    @Insert(onConflict = OnConflictStrategy.REPLACE) fun upsertExplanation(e: PredictionExplanationEntity)
    @Query("SELECT * FROM PredictionExplanation WHERE sequence = :seq LIMIT 1") fun explanationAt(seq: Int): PredictionExplanationEntity?
    @Query("DELETE FROM PredictionExplanation WHERE sequence > :seq") fun deleteExplanationsAfter(seq: Int)
    @Query("DELETE FROM PredictionExplanation") fun clearExplanations()

    // ---- ModelState (+ undo anlık görüntüleri)
    @Insert(onConflict = OnConflictStrategy.REPLACE) fun upsertModelStates(list: List<ModelStateEntity>)
    @Query("SELECT * FROM ModelState") fun modelStates(): List<ModelStateEntity>
    @Query("SELECT * FROM ModelState WHERE stateKey = :key LIMIT 1") fun modelState(key: String): ModelStateEntity?
    @Query("DELETE FROM ModelState WHERE stateKey LIKE 'undo.%'") fun clearUndo()
    @Query("DELETE FROM ModelState WHERE stateKey = :key") fun deleteModelState(key: String)
    @Query("DELETE FROM ModelState WHERE stateKey LIKE 'undo.%' AND recordCount >= :n") fun deleteUndoFrom(n: Int)
    @Query("DELETE FROM ModelState WHERE stateKey LIKE 'undo.%' AND recordCount < :n") fun deleteUndoBefore(n: Int)
    @Query("DELETE FROM ModelState") fun clearModelState()

    // ---- ModelPerformance
    @Insert(onConflict = OnConflictStrategy.REPLACE) fun upsertPerformance(list: List<ModelPerformanceEntity>)
    @Query("SELECT * FROM ModelPerformance") fun performance(): List<ModelPerformanceEntity>
    @Query("DELETE FROM ModelPerformance") fun clearPerformance()

    // ---- RegimeState / CalibrationState / EnsembleState
    @Insert(onConflict = OnConflictStrategy.REPLACE) fun upsertRegime(list: List<RegimeStateEntity>)
    @Query("SELECT * FROM RegimeState") fun regimeStates(): List<RegimeStateEntity>
    @Query("DELETE FROM RegimeState") fun clearRegime()
    @Insert(onConflict = OnConflictStrategy.REPLACE) fun upsertCalibration(list: List<CalibrationStateEntity>)
    @Query("SELECT * FROM CalibrationState") fun calibrationStates(): List<CalibrationStateEntity>
    @Query("DELETE FROM CalibrationState") fun clearCalibration()
    @Insert(onConflict = OnConflictStrategy.REPLACE) fun upsertEnsemble(list: List<EnsembleStateEntity>)
    @Query("SELECT * FROM EnsembleState") fun ensembleStates(): List<EnsembleStateEntity>
    @Query("DELETE FROM EnsembleState") fun clearEnsemble()

    // ---- ReplayState
```

[Dosya #53/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/db/Dao.kt (Satır 69 ve sonrası)

```
    @Insert fun insertReplay(r: ReplayStateEntity): Long
    @Query("SELECT * FROM ReplayState ORDER BY id DESC LIMIT :limit") fun replays(limit: Int): List<ReplayStateEntity>
    @Query("DELETE FROM ReplayState") fun clearReplays()
}
```

[Dosya #54/84] Proje Yolu: app/src/main/java/fan/superai/v13/db/FanDatabase.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 1.142 B (1.1 KB) | Satır: 32 satır SHA-256: 4e83b6aaa7d4c63c721a561586a6da6c…

```kotlin
package fan.superai.v13.db

import android.content.Context
import androidx.room.Database
import androidx.room.Room
import androidx.room.RoomDatabase

@Database(
    entities = [
        FanRecordEntity::class, PredictionRecordEntity::class, PredictionExplanationEntity::class,
        ModelStateEntity::class, ModelPerformanceEntity::class, RegimeStateEntity::class,
        CalibrationStateEntity::class, EnsembleStateEntity::class, ReplayStateEntity::class
    ],
    version = 1,
    exportSchema = false
)
abstract class FanDatabase : RoomDatabase() {
    abstract fun dao(): V13Dao

    companion object {
        @Volatile private var inst: FanDatabase? = null

        fun get(ctx: Context): FanDatabase = inst ?: synchronized(this) {
            inst ?: Room.databaseBuilder(ctx.applicationContext, FanDatabase::class.java, "fan_super_v13.db")
                .build().also { inst = it }
        }

        /** Testler için bellek içi veritabanı. */
        fun inMemory(ctx: Context): FanDatabase =
            Room.inMemoryDatabaseBuilder(ctx.applicationContext, FanDatabase::class.java).allowMainThreadQueries().build()
    }
}
```

[Dosya #55/84] Proje Yolu: app/src/main/java/fan/superai/v13/db/V13Store.kt

BÖLÜM 6 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 10.123 B (9.9 KB) | Satır: 190 satır SHA-256: f7f5048253e7617a09525256b6235175…

```kotlin
package fan.superai.v13.db

import fan.superai.v13.CombinedSide
import fan.superai.v13.EvaluationResult
import fan.superai.v13.FanLog
import fan.superai.v13.FanRecord
import fan.superai.v13.FinalPrediction
import fan.superai.v13.PredictionExplanation
import fan.superai.v13.StatePart
import java.util.zip.CRC32

/**
 * Kalıcılık katmanı (Room + SQLite). Her kayıtta DB baştan yazılmaz: yalnızca DEĞİŞEN durum parçaları
 * (içerik özeti farklı olanlar) yazılır; tahmin/değerlendirme tek satır güncellemesidir.
 */
class V13Store(val db: FanDatabase) {
    private val dao = db.dao()
    private val written = HashMap<String, Long>()

    companion object {
        const val LIVE = "LIVE"
        const val REPLAY = "REPLAY"
        const val UNDO_KEEP = 8
        private const val SEP1 = '\u001F'
        private const val SEP2 = '\u001E'

        fun encode(e: PredictionExplanation): String = listOf(e.numberPositive, e.numberNegative, e.sidePositive, e.sideNegative
, e.sideDetail)
            .joinToString(SEP2.toString()) { it.joinToString(SEP1.toString()) }

        fun decode(s: String): PredictionExplanation {
            val parts = s.split(SEP2)
            fun l(i: Int): List<String> = parts.getOrNull(i)?.takeIf { it.isNotEmpty() }?.split(SEP1) ?: emptyList()
            return PredictionExplanation(l(0), l(1), l(2), l(3), l(4))
        }

        fun dist(a: DoubleArray): String = a.joinToString(",") { "%.5f".format(java.util.Locale.US, it) }
        fun parseDist(s: String): DoubleArray = if (s.isEmpty()) DoubleArray(0) else s.split(",").map { it.toDouble() }.toDouble
```

[Dosya #55/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/db/V13Store.kt (Satır 37 ve sonrası)

```
Array()

        fun toEntity(r: FanRecord) = FanRecordEntity(r.recordId, r.timestamp, r.number, r.bigSmall.name, r.oddEven.name, r.combinedSide.name)
        fun fromEntity(e: FanRecordEntity) = FanRecord.of(e.recordId, e.timestamp, e.number)

        fun toEntity(mode: String, p: FinalPrediction) = PredictionRecordEntity(
            mode = mode, sequence = p.predictionSequence, lockId = p.predictionLockId, lockHash = p.lockHash,
            predictionTimestamp = p.predictionTimestamp, lastKnownRecordId = p.lastKnownRecordId,
            predictedNumber = p.number, bigSmall = p.bigSmall.name, oddEven = p.oddEven.name, sideLabel = p.sideLabel,
            confidence = p.confidence, sideConfidence = p.sideConfidence, entropy = p.entropy, regime = p.regime,
            ensembleVersion = "v" + p.ensembleVersion, numberDist = dist(p.numberDistribution.probabilities),
            sideDist = dist(p.sideDistribution.combined)
        )
    }

    private fun crc(b: ByteArray): Long { val c = CRC32(); c.update(b); return c.value }

    // ---------------------------------------------------------------- ham kayıtlar
    fun records(): List<FanRecord> = dao.allRecords().map { fromEntity(it) }
    fun recordCount(): Int = dao.recordCount()

    /** DB'yi [list] ile eşitler (kuyruk ekleme ya da fazlayı silme; farklıysa baştan yazar). */
    fun syncRecords(list: List<FanRecord>) {
        db.runInTransaction {
            val c = dao.recordCount()
            if (c == list.size) return@runInTransaction
            if (c in 1 until list.size) dao.upsertRecords(list.drop(c).map { toEntity(it) })
            else if (c > list.size && list.isNotEmpty()) dao.deleteRecordsAfter(list.last().recordId)
            else { dao.clearRecords(); dao.upsertRecords(list.map { toEntity(it) }) }
        }
    }

    fun replaceRecords(list: List<FanRecord>) = db.runInTransaction { dao.clearRecords(); dao.upsertRecords(list.map { toEntity(it) }) }

    // ---------------------------------------------------------------- model durumu
    /** Tüm durum parçalarını "tablo/anahtar" → bayt olarak yükler (undo anlık görüntüleri hariç). */
    fun loadParts(): Map<String, ByteArray> {
        val m = HashMap<String, ByteArray>()
        for (e in dao.modelStates()) if (!e.stateKey.startsWith("undo.")) m["model_state/${e.stateKey}"] = e.blob
        for (e in dao.regimeStates()) m["regime_state/${e.stateKey}"] = e.blob
        for (e in dao.calibrationStates()) m["calibration_state/${e.stateKey}"] = e.blob
        for (e in dao.ensembleStates()) m["ensemble_state/${e.stateKey}"] = e.blob
        for (e in dao.performance()) m["model_performance/${e.stateKey}"] = e.blob
        return m
    }

    /** Kayıtlı durumun kaç kayda ait olduğu (model_state satırlarından); yoksa -1. */
    fun savedCount(): Int = dao.modelState("memory")?.recordCount ?: -1

    fun saveParts(parts: List<StatePart>, recordCount: Int) {
        val now = System.currentTimeMillis()
        try {
            var changed = 0
            db.runInTransaction {
                val ms = ArrayList<ModelStateEntity>(); val rg = ArrayList<RegimeStateEntity>()
                val cb = ArrayList<CalibrationStateEntity>(); val en = ArrayList<EnsembleStateEntity>()
                val pf = ArrayList<ModelPerformanceEntity>()
                for (p in parts) {
                    val h = crc(p.bytes)
                    // 'memory' her zaman yazılır: recordCount güncel kalsın
                    if (written[p.full] == h && p.full != "model_state/memory") continue
                    changed++
                    when (p.table) {
                        "model_state" -> ms += ModelStateEntity(p.key, p.bytes, now, recordCount)
                        "regime_state" -> rg += RegimeStateEntity(p.key, p.bytes, now)
                        "calibration_state" -> cb += CalibrationStateEntity(p.key, p.bytes, now)
                        "ensemble_state" -> en += EnsembleStateEntity(p.key, p.bytes, now)
                        "model_performance" -> {
                            val r = p.perf
                            if (r != null) pf += ModelPerformanceEntity(p.key, r.axis, r.modelId, r.name, r.group, r.n, r.top1, r.top2,
                                r.logLoss, r.brier, r.entropy, r.recent, r.calGap, r.weight, r.gain, p.bytes, now)
                        }
                    }
                    written[p.full] = h
                }
                if (ms.isNotEmpty()) dao.upsertModelStates(ms)
                if (rg.isNotEmpty()) dao.upsertRegime(rg)
                if (cb.isNotEmpty()) dao.upsertCalibration(cb)
                if (en.isNotEmpty()) dao.upsertEnsemble(en)
                if (pf.isNotEmpty()) dao.upsertPerformance(pf)
            }
            FanLog.event(FanLog.STATE_PERSISTED, "$changed/${parts.size} parça yazıldı (n=$recordCount)")
```

[Dosya #55/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/v13/db/V13Store.kt (Satır 119 ve sonrası)

```
119         } catch (e: Exception) {
120             written.clear(); throw e
121         }
122     }
123 
124     fun clearStates() {
125         written.clear()
126         db.runInTransaction {
127             dao.clearModelState(); dao.clearRegime(); dao.clearCalibration(); dao.clearEnsemble(); dao.clearPerformance()
128         }
129     }
130 
131     fun saveUndo(count: Int, snapshot: ByteArray) {
132         dao.upsertModelStates(listOf(ModelStateEntity("undo.$count", snapshot, System.currentTimeMillis(), count)))
133         dao.deleteUndoBefore(count - UNDO_KEEP + 1)
134     }
135 
136     fun loadUndo(count: Int): ByteArray? = dao.modelState("undo.$count")?.blob
137     fun dropUndoFrom(count: Int) = dao.deleteUndoFrom(count)
138 
139     // ---------------------------------------------------------------- tahminler
140     fun savePrediction(mode: String, p: FinalPrediction, withExplanation: Boolean) {
141         dao.upsertPrediction(toEntity(mode, p).let { e -> dao.predictionAt(mode, p.predictionSequence)?.let { e.copy(id = it.id)
 } ?: e })
142         if (withExplanation) dao.upsertExplanation(PredictionExplanationEntity(p.predictionSequence, p.predictionLockId, encode(
p.explanation)))
143     }
144 
145     fun appendPredictions(list: List<PredictionRecordEntity>) { if (list.isNotEmpty()) dao.upsertPredictions(list) }
146 
147     fun appendRecord(r: FanRecord) { dao.upsertRecords(listOf(toEntity(r))) }
148 
149     fun savePredictionsBatch(mode: String, list: List<PredictionRecordEntity>) {
150         db.runInTransaction { dao.clearPredictions(mode); dao.upsertPredictions(list) }
151     }
152 
153     fun resolve(mode: String, ev: EvaluationResult) {
154         if (!ev.evaluated) return
155         val cur = dao.predictionAt(mode, ev.sequence) ?: return
156         dao.upsertPrediction(cur.copy(
157             actualRecordId = ev.recordId, actualNumber = ev.actualNumber, actualTimestamp = ev.actualTimestamp,
158             numberHit = ev.numberHit, top2Hit = ev.top2Hit, bigSmallHit = ev.bigSmallHit, oddEvenHit = ev.oddEvenHit,
159             sideHit = ev.sideHit, numberLogLoss = ev.numberLogLoss, sideLogLoss = ev.sideLogLoss
160         ))
161     }
162 
163     fun entityFor(mode: String, p: FinalPrediction, ev: EvaluationResult?): PredictionRecordEntity {
164         val e = toEntity(mode, p)
165         if (ev == null || !ev.evaluated) return e
166         return e.copy(actualRecordId = ev.recordId, actualNumber = ev.actualNumber, actualTimestamp = ev.actualTimestamp,
167             numberHit = ev.numberHit, top2Hit = ev.top2Hit, bigSmallHit = ev.bigSmallHit, oddEvenHit = ev.oddEvenHit,
168             sideHit = ev.sideHit, numberLogLoss = ev.numberLogLoss, sideLogLoss = ev.sideLogLoss)
169     }
170 
171     /** Geri alma: [count]'tan sonraki tahminleri sil, [count]. tahminin sonucunu sıfırla. */
172     fun rollbackTo(count: Int) = db.runInTransaction {
173         dao.deletePredictionsAfter(LIVE, count)
174         dao.deleteExplanationsAfter(count)
175         dao.clearActual(LIVE, count)
176         dao.deleteUndoFrom(count)
177     }
178 
179     fun clearReplayPredictions() = db.runInTransaction { dao.clearPredictions(REPLAY) }
180 
181     fun clearPredictions() = db.runInTransaction { dao.clearPredictions(LIVE); dao.clearPredictions(REPLAY); dao.clearExplanatio
ns() }
182 
183     fun page(offset: Int, limit: Int): List<PredictionRecordEntity> = dao.predictionPageAll(limit, offset)
184     fun predictionTotal(): Int = dao.predictionCountAll()
185     fun explanation(seq: Int): PredictionExplanation? = dao.explanationAt(seq)?.let { decode(it.payload) }
186 
187     fun saveReplay(r: ReplayStateEntity): Long = dao.insertReplay(r)
188     fun replays(limit: Int = 10): List<ReplayStateEntity> = dao.replays(limit)
189     fun performance(): List<ModelPerformanceEntity> = dao.performance()
190 }
```

BÖLÜM 7: Kotlin Kaynak Kodları — Overlay Servisi ve Görünümü (v1.4 Dört Satır)

3 Dosya · 533 Satır · 23.4 KB

v1.4 dört satırlı mavi kart (K, Py, kısa YAN [B•T / K•Ç], RAKAM), en yeni veri solda Son 6 satırı, dikey tam genişlikli DEL/4/3/2/1 düğmeleri ve pencere/dokunma yönetimi.

[Dosya #56/84] Proje Yolu: app/src/main/java/fan/superai/overlay/OverlayContent.kt

BÖLÜM 7 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 3.201 B (3.1 KB) | Satır: 73 satır SHA-256: ba271c248613056fd3cfcc0b41db4e8b…

```kotlin
package fan.superai.overlay

import fan.superai.Echo
import fan.superai.engine.EngineState
import fan.superai.engine.P
import fan.superai.v13.FinalPrediction

/** Yalnızca gösterim verisi: meclisleri/hakemi eğitmez veya değiştirmez. */
internal data class CouncilPrediction(
    val number: String = "--",
    val numberConfidence: String = "--",
    val side: String = "--",
    val sideConfidence: String = "--"
)

/**
 * Eski detay satırındaki gibi meclisin en olası iki rakamı; açıkça "tek" seçilmişse
 * yalnızca ilki. Otomatik/konformal karar ve kalibrasyon hakeme aittir; meclis
 * satırlarına hakemin tahmini veya güveni kopyalanmaz. Buradaki yüzdeler hamdır.
 * Yan: 1/3 = tek, 3/4 = büyük; güven iki yan bileşenin ortalamasıdır.
 */
internal fun councilPrediction(probs: DoubleArray?, single: Boolean = false): CouncilPrediction {
    if (probs == null) return CouncilPrediction()
    val order = P.order(probs)
    val first = order[0]
    val second = order[1]
    val odd = P.oddProb(probs)
    val big = P.bigProb(probs)
    fun pct(p: Double) = "%${(p * 100).toInt()}"
    return CouncilPrediction(
        number = if (single) "${first + 1}" else "${first + 1}/${second + 1}",
        numberConfidence = pct(probs[first] + if (single) 0.0 else probs[second]),
        side = (if (odd >= .5) "T" else "Ç") + "•" + (if (big >= .5) "B" else "K"),
        sideConfidence = pct((maxOf(odd, 1 - odd) + maxOf(big, 1 - big)) / 2)
    )
}

/**
 * En yeni veri solda. Echo'nun bir bölümü motor durumuna geçmiş olabilir:
 * yalnızca henüz işlenmemiş kuyruğu ekleyerek aynı sayıyı iki kere göstermeyiz.
 * Motorun ve uygulamanın diğer ekranlarının kronolojik sırası değiştirilmez.
 */
internal fun overlayRecent(st: EngineState?, echo: Echo): List<Int> {
    val unprocessed = (echo.base + echo.pendingCount - (st?.count ?: 0))
        .coerceIn(0, echo.values.size)
    return ((st?.recent ?: emptyList()) + echo.values.takeLast(unprocessed))
        .takeLast(6).asReversed()
}

/**
 * v1.4 nihai tahmin → overlay metni: rakam (çift kararda "1/2") + KISA yan (BS + OE),
 * örn. "B•T". Yan artık "BÜYÜK+TEK" gibi uzun yazılmaz.
 */
internal fun overlayFinal(f: FinalPrediction?): CouncilPrediction {
    if (f == null) return CouncilPrediction()
    fun pct(p: Double) = "%${(p * 100).toInt()}"
    return CouncilPrediction(
        number = f.numberLabel, numberConfidence = pct(f.confidence),
        side = f.sideShort, sideConfidence = pct(f.sideConfidence)
    )
}

/**
 * v1.4 overlay meclis satırları: Kotlin ve Python rakam tahminleri kendi grup
 * karışımlarından gelir ("1/2" gibi). Kaç aday gösterileceği nihai tek/çift kararıyla
 * aynıdır: tek kararda yalnızca ilk aday. Python yok/henüz hazır değilse [CouncilPrediction]
 * "--" döner; Kotlin veya hakem sonucu Python satırına kopyalanmaz.
 */
internal fun overlayKotlinRow(f: FinalPrediction?): CouncilPrediction =
    councilPrediction(f?.kotlinNumberProbs, single = f?.numberSecondary == null)

internal fun overlayPythonRow(f: FinalPrediction?): CouncilPrediction =
    councilPrediction(f?.pythonNumberProbs, single = f?.numberSecondary == null)
```

[Dosya #57/84] Proje Yolu: app/src/main/java/fan/superai/overlay/OverlayService.kt BÖLÜM 7 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 7.927 B (7.7 KB) | Satır: 184 satır SHA-256: 640863144b2c659428e3e62401e3f621…

```kotlin
package fan.superai.overlay

import android.app.Notification
import android.app.NotificationChannel
import android.app.NotificationManager
import android.app.PendingIntent
import android.content.Context
import android.content.Intent
import android.content.res.Configuration
import android.content.pm.ServiceInfo
import android.graphics.PixelFormat
import android.os.Build
import android.provider.Settings as AndroidSettings
import android.util.DisplayMetrics
import android.view.Gravity
import android.view.WindowManager
import androidx.core.app.NotificationCompat
import androidx.core.app.ServiceCompat
import androidx.lifecycle.LifecycleService
import androidx.lifecycle.lifecycleScope
import fan.superai.Echo
import fan.superai.EngineHost
import fan.superai.R
import fan.superai.data.AppSettings
import fan.superai.data.Settings
import fan.superai.engine.EngineState
import fan.superai.ui.MainActivity
import kotlinx.coroutines.flow.MutableStateFlow
import kotlinx.coroutines.flow.StateFlow
import kotlinx.coroutines.flow.combine
import kotlinx.coroutines.launch

/**
 * Kartı ekran sınırları içinde tutar: sürükleme ya da ekran döndürme sonrası
 * sayı düğmelerinin ekran dışında kalıp "çalışmıyor" gibi görünmesini engeller.
 * Kart ekrandan büyükse sol/üst kenara yapıştırılır (düğmeler yine görünür).
 */
fun clampOverlayPos(x: Int, y: Int, w: Int, h: Int, screenW: Int, screenH: Int): IntArray {
    val maxX = (screenW - w).coerceAtLeast(0)
    val maxY = (screenH - h).coerceAtLeast(0)
    return intArrayOf(x.coerceIn(0, maxX), y.coerceIn(0, maxY))
}

class OverlayService : LifecycleService() {

    companion object {
        private const val CHANNEL = "fan_super_overlay"
        private const val NOTIF_ID = 42
        private val _running = MutableStateFlow(false)
        val running: StateFlow<Boolean> = _running

        fun canDraw(ctx: Context) = AndroidSettings.canDrawOverlays(ctx)

        fun start(ctx: Context) {
            val i = Intent(ctx, OverlayService::class.java)
            if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) ctx.startForegroundService(i) else ctx.startService(i)
        }
        fun stop(ctx: Context) { ctx.stopService(Intent(ctx, OverlayService::class.java)) }
    }

    private lateinit var wm: WindowManager
    private var view: OverlayView? = null
    private var params: WindowManager.LayoutParams? = null
    private var builtWith: AppSettings? = null
    private var posX = 40
    private var posY = 240

    private fun screenSize(): IntArray {
        val dm = DisplayMetrics()
        @Suppress("DEPRECATION")
        wm.defaultDisplay.getRealMetrics(dm)
        return intArrayOf(dm.widthPixels, dm.heightPixels)
    }

    override fun onCreate() {
        super.onCreate()
        wm = getSystemService(WINDOW_SERVICE) as WindowManager
        startAsForeground()
        _running.value = true
        lifecycleScope.launch {
            combine(EngineHost.state, EngineHost.busy, EngineHost.echo, Settings.flow) { st, busy, e, s ->
                Quad(st, busy, e, s)
```

[Dosya #57/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/overlay/OverlayService.kt (Satır 83 ve sonrası)

```
83              }.combine(EngineHost.finalPrediction) { q, f -> q to f }.collect { (q, fin) ->
84                  val (st, busy, e, s) = q
85                  val b = builtWith
86                  if (b == null || b.overlayHorizontal != s.overlayHorizontal || b.overlayTextScale != s.overlayTextScale ||
87                      b.overlayAlpha != s.overlayAlpha || b.showRecent != s.showRecent || b.vibrate != s.vibrate ||
88                      b.pairMode != s.pairMode || b.silentFirst != s.silentFirst) {
89                      buildView(s)
90                  }
91                  view?.update(st, busy, e, fin)
92              }
93          }
94      }
95
96      /** combine() dört akış için kendi veri sınıfımız (Triple yetmiyor). */
97      private data class Quad(val st: EngineState?, val busy: String?, val echo: Echo, val s: AppSettings)
98
99      /** Ölçümden sonra kartı ekran içine çeker. */
100     private fun clampIntoScreen() {
101         val v = view ?: return
102         val p = params ?: return
103         val scr = screenSize()
104         val w = if (v.width > 0) v.width else v.measuredWidth
105         val h = if (v.height > 0) v.height else v.measuredHeight
106         if (w <= 0 || h <= 0) return
107         val c = clampOverlayPos(p.x, p.y, w, h, scr[0], scr[1])
108         if (c[0] != p.x || c[1] != p.y) {
109             p.x = c[0]; p.y = c[1]; posX = p.x; posY = p.y
110             try { wm.updateViewLayout(v, p) } catch (_: Exception) {}
111         }
112     }
113
114     private fun startAsForeground() {
115         val nm = getSystemService(NOTIFICATION_SERVICE) as NotificationManager
116         if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) {
117             nm.createNotificationChannel(NotificationChannel(CHANNEL, getString(R.string.overlay_channel), NotificationManager.I
↳ MPORTANCE_LOW))
118         }
119         val pi = PendingIntent.getActivity(this, 0, Intent(this, MainActivity::class.java),
120             PendingIntent.FLAG_IMMUTABLE or PendingIntent.FLAG_UPDATE_CURRENT)
121         val n: Notification = NotificationCompat.Builder(this, CHANNEL)
122             .setContentTitle(getString(R.string.app_name))
123             .setContentText(getString(R.string.overlay_running))
124             .setSmallIcon(R.drawable.ic_fan_super)
125             .setContentIntent(pi)
126             .setOngoing(true)
127             .build()
128         val type = if (Build.VERSION.SDK_INT >= 34) ServiceInfo.FOREGROUND_SERVICE_TYPE_SPECIAL_USE else 0
129         ServiceCompat.startForeground(this, NOTIF_ID, n, type)
130     }
131
132     private fun buildView(s: AppSettings) {
133         view?.let { try { wm.removeView(it) } catch (_: Exception) {} }
134         val v = OverlayView(this, s,
135             onNumber = { EngineHost.add(it) },
136             onDelete = { EngineHost.undo() },
137             onDrag = { dx, dy ->
138                 val p = params
139                 val cur = view
140                 if (p != null && cur != null) {
141                     val scr = screenSize()
142                     val w = if (cur.width > 0) cur.width else cur.measuredWidth
143                     val h = if (cur.height > 0) cur.height else cur.measuredHeight
144                     val c = clampOverlayPos(p.x + dx, p.y + dy, w, h, scr[0], scr[1])
145                     p.x = c[0]; p.y = c[1]; posX = p.x; posY = p.y
146                     try { wm.updateViewLayout(cur, p) } catch (_: Exception) {}
147                 }
148             })
149         val type = if (Build.VERSION.SDK_INT >= Build.VERSION_CODES.O) WindowManager.LayoutParams.TYPE_APPLICATION_OVERLAY
150         else @Suppress("DEPRECATION") WindowManager.LayoutParams.TYPE_PHONE
151         val p = WindowManager.LayoutParams(
152             WindowManager.LayoutParams.WRAP_CONTENT, WindowManager.LayoutParams.WRAP_CONTENT, type,
153             WindowManager.LayoutParams.FLAG_NOT_FOCUSABLE or WindowManager.LayoutParams.FLAG_LAYOUT_NO_LIMITS,
154             PixelFormat.TRANSLUCENT
155         ).apply { gravity = Gravity.TOP or Gravity.START; x = posX; y = posY }
156         try {
157             wm.addView(v, p)
158             view = v; params = p; builtWith = s
159             // Akış güncellemesi ölçümden ÖNCE gelir. Boy/ekran değişikliklerini
160             // layout sonrasında yakala; ek bir motor güncellemesini bekleme.
161             v.addOnLayoutChangeListener { _, _, _, _, _, _, _, _, _ -> clampIntoScreen() }
162             v.post { clampIntoScreen() }
163         } catch (e: Exception) {
164             stopSelf()
165         }
166     }
```

[Dosya #57/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/overlay/OverlayService.kt (Satır 167 ve sonrası)

```kotlin

    /** Ekran döndürmede yeniden ölç ve yeni ekran sınırları içine al. */
    override fun onConfigurationChanged(newConfig: Configuration) {
        super.onConfigurationChanged(newConfig)
        view?.let { v ->
            v.requestLayout()
            v.post { clampIntoScreen() }
        }
    }

    override fun onDestroy() {
        view?.let { try { wm.removeView(it) } catch (_: Exception) {} }
        view = null
        _running.value = false
        EngineHost.persist()
        super.onDestroy()
    }
}
```

[Dosya #58/84] Proje Yolu: app/src/main/java/fan/superai/overlay/OverlayView.kt

BÖLÜM 7 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 12.813 B (12.5 KB) | Satır: 276 satır SHA-256: 588ba0ccfbdcf217acf672072cbd6cfc…

```kotlin
package fan.superai.overlay

import android.annotation.SuppressLint
import android.content.Context
import android.graphics.Color
import android.graphics.Typeface
import android.graphics.drawable.GradientDrawable
import android.text.TextUtils
import android.view.Gravity
import android.view.MotionEvent
import android.view.ViewConfiguration
import android.widget.LinearLayout
import android.widget.TextView
import fan.superai.Echo
import fan.superai.data.AppSettings
import fan.superai.engine.EngineState
import fan.superai.v13.FinalPrediction
import kotlin.math.abs

/**
 * Onaylanan v9.6 mavi kartı (v1.4: aynı stil, dört satır):
 *   K       Kotlin meclisinin rakam tahmini ("1/2" gibi)
 *   Py      Python meclisinin rakam tahmini (yoksa "--")
 *   YAN     nihai yan tahmini, KISA (örn. "B•T" / "K•Ç")
 *   RAKAM   nihai rakam tahmini (v1.4: çift kararda "1/2")
 *   son 6 sayı (en yeni solda)
 *   DEL / 4 / 3 / 2 / 1 (alt alta)
 *
 * Yatay ayarı korunur: aynı satırlar solda, düğmeler sağda.
 * Tahmin alanı ve kart kenarları sürüklenebilir; veri düğmeleri sürükleme dinleyicisine bağlanmaz.
 */
@SuppressLint("ViewConstructor", "SetTextI18n", "ClickableViewAccessibility")
class OverlayView(
    ctx: Context,
    private val s: AppSettings,
    private val onNumber: (Int) -> Unit,
    private val onDelete: () -> Unit,
    private val onDrag: (dx: Int, dy: Int) -> Unit
) : LinearLayout(ctx) {
    private val sc = s.overlayTextScale
    private fun dp(v: Int) = (v * resources.displayMetrics.density).toInt()
    private fun scaledDp(v: Int) = dp((v * sc).toInt())
    private val labelColor = Color.parseColor("#BBDEFB")
    private val confColor = Color.parseColor("#FFB74D")
    private val green = Color.parseColor("#81C784")
    private val purple = Color.parseColor("#CE93D8")

    private data class PredictionRow(val value: TextView, val confidence: TextView)
    private lateinit var kotlinRow: PredictionRow
    private lateinit var pythonRow: PredictionRow
    private lateinit var finalSide: PredictionRow
    private lateinit var finalNumber: PredictionRow
    private lateinit var panelBox: LinearLayout
    private lateinit var buttonBox: LinearLayout
    private var recent: TextView? = null
    private lateinit var status: TextView
    private val recentEmpty = "- - - - - -"

    private val touchSlop = ViewConfiguration.get(ctx).scaledTouchSlop
    private var lastX = 0f
    private var lastY = 0f
```

[Dosya #58/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/overlay/OverlayView.kt (Satır 62 ve sonrası)

```
62      private var tracking = false
63      private var dragging = false
64      // Dinleyici, init içinde görünümler kurulmadan önce oluşturulmalı.
65      private val dragListener = OnTouchListener { v, e ->
66          when (e.actionMasked) {
67              MotionEvent.ACTION_DOWN -> {
68                  lastX = e.rawX; lastY = e.rawY
69                  tracking = true; dragging = false
70              }
71              MotionEvent.ACTION_MOVE -> if (tracking) {
72                  val dx = e.rawX - lastX
73                  val dy = e.rawY - lastY
74                  if (!dragging && (abs(dx) > touchSlop || abs(dy) > touchSlop)) dragging = true
75                  if (dragging) {
76                      onDrag(dx.toInt(), dy.toInt())
77                      lastX = e.rawX; lastY = e.rawY
78                  }
79              }
80              MotionEvent.ACTION_UP -> {
81                  if (tracking && !dragging) v.performClick()
82                  tracking = false; dragging = false
83              }
84              MotionEvent.ACTION_CANCEL -> { tracking = false; dragging = false }
85          }
86          true
87      }
88
89      init {
90          orientation = if (s.overlayHorizontal) HORIZONTAL else VERTICAL
91          gravity = Gravity.CENTER_VERTICAL
92          // Sayılar, RTL telefonlarda da en yenisi solda kalacak şekilde gösterilir.
93          layoutDirection = LAYOUT_DIRECTION_LTR
94          background = GradientDrawable().apply {
95              cornerRadius = dp(14).toFloat()
96              setColor(Color.argb((s.overlayAlpha * 255).toInt(), 0x15, 0x65, 0xC0))
97          }
98          setPadding(dp(10), dp(10), dp(10), dp(10))
99          setOnTouchListener(dragListener)
100         val panel = buildPredictionPanel()
101         panelBox = panel
102         if (s.overlayHorizontal) {
103             addView(panel, LayoutParams(0, LayoutParams.WRAP_CONTENT, 1f))
104             buttonBox = buttons(true)
105             addView(buttonBox, LayoutParams(LayoutParams.WRAP_CONTENT, LayoutParams.WRAP_CONTENT).apply {
106                 leftMargin = dp(8)
107             })
108         } else {
109             addView(panel, LayoutParams(LayoutParams.MATCH_PARENT, LayoutParams.WRAP_CONTENT))
110             buttonBox = buttons(false)
111             addView(buttonBox, LayoutParams(LayoutParams.MATCH_PARENT, scaledDp(220), 1f))
112         }
113     }
114
115     /**
116      * Sabit kompakt genişlik: tahmin değiştikçe kartın eni/konumu oynamaz.
117      * Dikey görünümde düğme grubu PANELDEN ARTA KALAN yüksekliği alır (en fazla 220dp);
118      * böylece v1.4'te eklenen dört tahmin satırıyla birlikte kısa ekranlarda da DEL/1/2/3/4
119      * düğmeleri kartın (ve ekranın) dışına taşmaz.
120      */
121     override fun onMeasure(widthMeasureSpec: Int, heightMeasureSpec: Int) {
122         val dm = resources.displayMetrics
123         fun limit(spec: Int, screen: Int): Int = if (MeasureSpec.getMode(spec) == MeasureSpec.UNSPECIFIED)
124             screen else minOf(screen, MeasureSpec.getSize(spec))
125         val width = minOf(scaledDp(if (s.overlayHorizontal) 380 else 148), limit(widthMeasureSpec, dm.widthPixels))
126         val height = limit(heightMeasureSpec, dm.heightPixels)
127         if (!s.overlayHorizontal) {
128             val inner = (width - paddingLeft - paddingRight).coerceAtLeast(0)
129             panelBox.measure(
130                 MeasureSpec.makeMeasureSpec(inner, MeasureSpec.EXACTLY),
131                 MeasureSpec.makeMeasureSpec(height, MeasureSpec.AT_MOST)
132             )
133             val room = (height - paddingTop - paddingBottom - panelBox.measuredHeight)
134                 .coerceAtLeast(scaledDp(90))
135             val want = minOf(scaledDp(220), room)
136             val lp = buttonBox.layoutParams as LayoutParams
137             if (lp.height != want) {
138                 lp.height = want
139                 buttonBox.layoutParams = lp
140             }
141         }
142         super.onMeasure(
143             MeasureSpec.makeMeasureSpec(width, MeasureSpec.EXACTLY),
144             MeasureSpec.makeMeasureSpec(height, MeasureSpec.AT_MOST)
145         )
146     }
```

[Dosya #58/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/overlay/OverlayView.kt (Satır 147 ve sonrası)

```
147
148     private fun tv(text: String, size: Float, color: Int, mono: Boolean = false) = TextView(context).apply {
149         this.text = text
150         textSize = size * sc
151         setTextColor(color)
152         typeface = if (mono) Typeface.MONOSPACE else Typeface.DEFAULT
153         isSingleLine = true
154         includeFontPadding = false
155         ellipsize = TextUtils.TruncateAt.END
156     }
157
158     private fun LinearLayout.predictionRow(
159         key: String, label: String, description: String, labelColor: Int, valueColor: Int, confidenceColor: Int
160     ): PredictionRow {
161         val value = tv("--", 15f, valueColor, mono = true).apply { tag = "$key.value" }
162         val confidence = tv("--", 10f, confidenceColor, mono = true).apply {
163             tag = "$key.confidence"
164             gravity = Gravity.END
165         }
166         addView(LinearLayout(context).apply {
167             orientation = HORIZONTAL
168             gravity = Gravity.CENTER_VERTICAL
169             isBaselineAligned = false
170             setPadding(0, dp(1), 0, dp(1))
171             contentDescription = description
172             addView(tv(label, 10f, labelColor).apply {
173                 typeface = Typeface.DEFAULT_BOLD
174                 setPadding(0, 0, dp(6), 0)
175             })
176             addView(value, LayoutParams(0, LayoutParams.WRAP_CONTENT, 1f))
177             addView(confidence)
178             setOnTouchListener(dragListener)
179         // Emoji yedek fontlarının satır yüksekliğini şişirip veri düğmelerini
180         // ezmesini önle. 15sp değer + dikey boşluk, kullanıcı ölçeğiyle birlikte büyür.
181         }, LayoutParams(LayoutParams.MATCH_PARENT, scaledDp(24)))
182         return PredictionRow(value, confidence)
183     }
184
185     private fun buildPredictionPanel() = LinearLayout(context).apply {
186         orientation = VERTICAL
187         setOnTouchListener(dragListener)
188         // v1.4 sırası: Kotlin rakam → Python rakam → kısa yan → nihai rakam.
189         kotlinRow = predictionRow("kotlin.number", "K", "Kotlin rakam tahmini",
190             Color.parseColor("#64B5F6"), Color.WHITE, confColor)
191         pythonRow = predictionRow("python.number", "Py", "Python rakam tahmini", green, Color.WHITE, confColor)
192         finalSide = predictionRow("final.side", "YAN", "Nihai yan tahmini (kısa)", purple, purple, purple)
193         finalNumber = predictionRow("final.number", "RAKAM", "Nihai rakam tahmini",
194             Color.parseColor("#64B5F6"), Color.WHITE, confColor)
195         status = tv("", 9f, confColor).apply {
196             gravity = Gravity.CENTER
197             visibility = GONE
198             setOnTouchListener(dragListener)
199         }
200         addView(status, LayoutParams(LayoutParams.MATCH_PARENT, scaledDp(16)))
201         if (s.showRecent) {
202             recent = tv(recentEmpty, 9f, labelColor, mono = true).apply {
203                 tag = "recent"
204                 gravity = Gravity.CENTER
205                 contentDescription = "Son 6 veri, en yeni solda"
206                 setPadding(0, dp(4), 0, dp(6))
207                 setOnTouchListener(dragListener)
208             }
209             addView(recent, LayoutParams(LayoutParams.MATCH_PARENT, scaledDp(24)))
210         }
211     }
212
213     private fun button(label: String, color: String, compact: Boolean, action: () -> Unit) =
214         tv(label, if (label == "DEL" || label == "⌫") 12f else 14f, Color.WHITE).apply {
215             gravity = Gravity.CENTER
216             // Eski karttaki tam genişlikli, düz renkli düğmeler.
217             setBackgroundColor(Color.parseColor(color))
218             isClickable = true
219             isFocusable = true
220             contentDescription = if (label == "DEL" || label == "⌫") "Son veriyi sil" else "$label ekle"
221             setOnClickListener {
222                 if (s.vibrate) performHapticFeedback(android.view.HapticFeedbackConstants.VIRTUAL_KEY)
223                 action()
224             }
225             if (compact) textSize = 12f * sc
226             setOnTouchListener { v, e ->
227                 when (e.actionMasked) {
228                     MotionEvent.ACTION_DOWN -> v.alpha = 0.55f
229                     MotionEvent.ACTION_UP, MotionEvent.ACTION_CANCEL -> v.alpha = 1f
230                 }
231                 false // Tıklamayı düğmenin kendisi işler; sürükleme veri girişi üretmez.
```

[Dosya #58/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/overlay/OverlayView.kt (Satır 232 ve sonrası)

```
232             }
233         }
234
235     private fun buttons(compact: Boolean) = LinearLayout(context).apply {
236         orientation = if (compact) HORIZONTAL else VERTICAL
237         val room = resources.displayMetrics.widthPixels - scaledDp(148) - dp(28) - dp(20)
238         val width = minOf(scaledDp(38), (room / 5).coerceAtLeast(dp(18)))
239         val items = listOf(
240             button(if (compact) "⌫" else "DEL", "#78909C", compact) { onDelete() },
241             button("4", "#F44336", compact) { onNumber(4) },
242             button("3", "#FF9800", compact) { onNumber(3) },
243             button("2", "#2196F3", compact) { onNumber(2) },
244             button("1", "#4CAF50", compact) { onNumber(1) }
245         )
246         items.forEach { b ->
247             addView(b, if (compact) LayoutParams(width, scaledDp(38)).apply {
248                 setMargins(dp(2), 0, dp(2), 0)
249             } else LayoutParams(LayoutParams.MATCH_PARENT, 0, 1f).apply {
250                 setMargins(0, dp(2), 0, dp(2))
251             })
252         }
253     }
254
255     @JvmOverloads
256     fun update(st: EngineState?, busy: String?, echo: Echo = Echo(0, emptyList()), final: FinalPrediction? = null) {
257         status.text = busy ?: ""
258         status.visibility = if (busy == null) GONE else VISIBLE
259         val learning = st?.learning == true
260         // Öğrenme turunda (ilk sessiz tur) dört satır da "…" gösterir; veri girişi açık kalır.
261         val hide = learning && final != null
262         val k = overlayKotlinRow(final)
263         val py = overlayPythonRow(final)
264         val p = overlayFinal(final)
265         kotlinRow.value.text = if (hide) "…" else k.number
266         kotlinRow.confidence.text = if (hide) "" else k.numberConfidence
267         pythonRow.value.text = if (hide) "…" else py.number
268         pythonRow.confidence.text = if (hide) "" else py.numberConfidence
269         finalNumber.value.text = if (hide) "…" else p.number
270         finalNumber.confidence.text = if (hide) "${st?.count}/${s.silentFirst}" else p.numberConfidence
271         finalSide.value.text = if (hide) "…" else p.side
272         finalSide.confidence.text = if (hide) "" else p.sideConfidence
273         val values = overlayRecent(st, echo)
274         recent?.text = if (values.isEmpty()) recentEmpty else values.joinToString(" ")
275     }
276 }
```

BÖLÜM 8: Kotlin Kaynak Kodları — Kullanıcı Arayüzü Ekranları (Jetpack Compose)

9 Dosya · 1.451 Satır · 76.9 KB

MainActivity, renk/tema tanımları, Ana Ekran (HomeScreen), Meclisler (CouncilScreen), Keşif ve Grafikler (DiscoveryChartScreens), Araştırma (ResearchScreen), 8 sekmeli FAN LAB (FanLabScreen), Ayarlar (SettingsScreen) ve İşlem Logları (LogScreen).

[Dosya #59/84] Proje Yolu: app/src/main/java/fan/superai/ui/MainActivity.kt

BÖLÜM 8 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 3.823 B (3.7 KB) | Satır: 95 satır SHA-256: 4ced0fbb63b4f78361247554ba06b2fb…

```kotlin
package fan.superai.ui

import android.Manifest
import android.content.Intent
import android.net.Uri
import android.os.Build
import android.os.Bundle
import android.provider.Settings as AndroidSettings
import android.widget.Toast
import androidx.activity.ComponentActivity
import androidx.activity.compose.setContent
import androidx.activity.result.contract.ActivityResultContracts
import androidx.compose.foundation.background
import androidx.compose.foundation.clickable
import androidx.compose.foundation.layout.Box
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableIntStateOf
import androidx.compose.runtime.saveable.rememberSaveable
import androidx.compose.runtime.setValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.text.style.TextAlign
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import fan.superai.EngineHost
import fan.superai.overlay.OverlayService

class MainActivity : ComponentActivity() {

    private val notifPerm = registerForActivityResult(ActivityResultContracts.RequestPermission()) { }

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        if (Build.VERSION.SDK_INT >= 33) notifPerm.launch(Manifest.permission.POST_NOTIFICATIONS)
        setContent { FanTheme { Root(this) } }
    }

    fun toggleOverlay() {
        if (OverlayService.running.value) { OverlayService.stop(this); return }
        if (!OverlayService.canDraw(this)) {
            Toast.makeText(this, "Lütfen 'Diğer uygulamaların üzerinde göster' iznini verin", Toast.LENGTH_LONG).show()
            startActivity(Intent(AndroidSettings.ACTION_MANAGE_OVERLAY_PERMISSION, Uri.parse("package:$packageName")))
            return
        }
        OverlayService.start(this)
    }

    override fun onStop() {
        super.onStop()
        EngineHost.persist()
    }
}

@Composable
private fun Root(act: MainActivity) {
    var tab by rememberSaveable { mutableIntStateOf(0) }
    Column(Modifier.fillMaxSize().background(C.bg)) {
        Box(Modifier.weight(1f).fillMaxWidth()) {
            when (tab) {
                0 -> HomeScreen(onOverlay = { act.toggleOverlay() })
                1 -> CouncilScreen()
                2 -> DiscoveryScreen()
                3 -> ChartScreen()
                4 -> FanLabScreen()
                else -> SettingsScreen()
            }
        }
```

[Dosya #59/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/MainActivity.kt (Satır 77 ve sonrası)

```
77          Row(Modifier.fillMaxWidth().height(58.dp).background(C.bar)) {
78              listOf("🏠" to "Ana", "🏛" to "Meclisler", "🔍" to "Keşif", "▦" to "Grafik", "✎" to "FAN LAB", "⚙" to "Ayarlar")
79                  .forEachIndexed { i, (ic, l) ->
80                      Column(Modifier.weight(1f).fillMaxSize().clickable { tab = i }.padding(top = 6.dp),
81                          horizontalAlignment = Alignment.CenterHorizontally) {
82                          Text(ic, fontSize = 18.sp)
83                          Text(l, fontSize = 10.sp, color = if (tab == i) C.lightBlue else C.dim, textAlign = TextAlign.Center)
84                      }
85                  }
86          }
87      }
88  }
89
90  @Composable
91  fun BusyBanner(msg: String?) {
92      if (msg == null) return
93      Text(msg, color = Color.White, fontSize = 12.sp, textAlign = TextAlign.Center,
94          modifier = Modifier.fillMaxWidth().padding(bottom = 10.dp).background(Color(0xFF3E2F10)).padding(8.dp))
95  }
```

[Dosya #60/84] Proje Yolu: app/src/main/java/fan/superai/ui/Theme.kt

BÖLÜM 8 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 4.908 B (4.8 KB) | Satır: 116 satır SHA-256: 707e77095736d066c4662f5bc3180280…

```
1   package fan.superai.ui
2
3   import androidx.compose.foundation.background
4   import androidx.compose.foundation.border
5   import androidx.compose.foundation.clickable
6   import androidx.compose.foundation.layout.Arrangement
7   import androidx.compose.foundation.layout.Box
8   import androidx.compose.foundation.layout.Column
9   import androidx.compose.foundation.layout.ColumnScope
10  import androidx.compose.foundation.layout.Row
11  import androidx.compose.foundation.layout.RowScope
12  import androidx.compose.foundation.layout.fillMaxWidth
13  import androidx.compose.foundation.layout.height
14  import androidx.compose.foundation.layout.padding
15  import androidx.compose.foundation.shape.RoundedCornerShape
16  import androidx.compose.material3.MaterialTheme
17  import androidx.compose.material3.Text
18  import androidx.compose.material3.darkColorScheme
19  import androidx.compose.runtime.Composable
20  import androidx.compose.ui.Alignment
21  import androidx.compose.ui.Modifier
22  import androidx.compose.ui.draw.clip
23  import androidx.compose.ui.graphics.Color
24  import androidx.compose.ui.text.font.FontFamily
25  import androidx.compose.ui.text.font.FontWeight
26  import androidx.compose.ui.unit.dp
27  import androidx.compose.ui.unit.sp
28
29  object C {
30      val bg = Color(0xFF0F1726)
31      val bar = Color(0xFF0D1320)
32      val card = Color(0xFF16223A)
33      val border = Color(0xFF22324F)
34      val line = Color(0xFF1E2A3D)
35      val text = Color(0xFFE6EDF6)
36      val muted = Color(0xFF8A97AA)
37      val dim = Color(0xFF6F7F96)
38      val head = Color(0xFF8AA3C4)
39      val blue = Color(0xFF1565C0)
40      val kotlin = Color(0xFF1976D2)
41      val python = Color(0xFF388E3C)
42      val lightBlue = Color(0xFF64B5F6)
43      val lightGreen = Color(0xFF81C784)
44      val orange = Color(0xFFFFB74D)
45      val purple = Color(0xFFE1BEE7)
46      val danger = Color(0xFFFF8A80)
47      val b1 = Color(0xFF4CAF50); val b2 = Color(0xFF2196F3); val b3 = Color(0xFFFF9800); val b4 = Color(0xFFF44336)
48      val del = Color(0xFF78909C)
49  }
50
51  @Composable
52  fun FanTheme(content: @Composable () -> Unit) {
53      MaterialTheme(
54          colorScheme = darkColorScheme(
55              primary = C.blue, background = C.bg, surface = C.card, onSurface = C.text, onBackground = C.text,
56              secondary = C.lightBlue
57          ),
58          content = content
59      )
60  }
```

[Dosya #60/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/Theme.kt (Satır 61 ve sonrası)

```

@Composable
fun FCard(title: String? = null, borderColor: Color = C.border, content: @Composable ColumnScope.() -> Unit) {
    Column(
        Modifier.fillMaxWidth().padding(bottom = 10.dp).clip(RoundedCornerShape(14.dp)).background(C.card)
            .border(1.dp, borderColor, RoundedCornerShape(14.dp)).padding(12.dp)
    ) {
        if (title != null) Text(title.uppercase(), color = C.head, fontSize = 11.sp, letterSpacing = 0.6.sp,
            modifier = Modifier.padding(bottom = 8.dp))
        content()
    }
}

@Composable
fun KV(k: String, v: String, vColor: Color = C.text, bold: Boolean = true, mono: Boolean = false) {
    Row(Modifier.fillMaxWidth().padding(vertical = 4.dp), horizontalArrangement = Arrangement.SpaceBetween,
        verticalAlignment = Alignment.CenterVertically) {
        Text(k, color = C.text, fontSize = 13.sp, modifier = Modifier.weight(1f))
        Text(v, color = vColor, fontSize = 13.sp, fontWeight = if (bold) FontWeight.Bold else FontWeight.Normal,
            fontFamily = if (mono) FontFamily.Monospace else FontFamily.Default)
    }
    Box(Modifier.fillMaxWidth().height(1.dp).background(C.line))
}

@Composable
fun Muted(t: String, modifier: Modifier = Modifier) = Text(t, color = C.muted, fontSize = 12.sp, modifier = modifier)

@Composable
fun Pill(t: String, bg: Color = C.border, fg: Color = Color(0xFF9FB3CC), onClick: (() -> Unit)? = null) {
    Text(t, color = fg, fontSize = 11.sp,
        modifier = Modifier.clip(RoundedCornerShape(10.dp)).background(bg)
            .then(if (onClick != null) Modifier.clickable { onClick() } else Modifier)
            .padding(horizontal = 9.dp, vertical = 4.dp))
}

@Composable
fun Tabs(items: List<String>, sel: Int, onSel: (Int) -> Unit) {
    Row(Modifier.fillMaxWidth().padding(bottom = 10.dp), horizontalArrangement = Arrangement.spacedBy(6.dp)) {
        items.forEachIndexed { i, t ->
            Text(t, color = if (i == sel) Color.White else C.muted, fontSize = 12.sp,
                textAlign = androidx.compose.ui.text.style.TextAlign.Center,
                modifier = Modifier.weight(1f).clip(RoundedCornerShape(9.dp))
                    .background(if (i == sel) C.blue else C.card).clickable { onSel(i) }.padding(vertical = 8.dp))
        }
    }
}

@Composable
fun RowScope.NumButton(label: String, color: Color, fontSize: Int = 22, onClick: () -> Unit) {
    Box(Modifier.weight(1f).height(54.dp).clip(RoundedCornerShape(12.dp)).background(color).clickable { onClick() },
        contentAlignment = Alignment.Center) {
        Text(label, color = Color.White, fontSize = fontSize.sp, fontWeight = FontWeight.Bold)
    }
}

fun pct(x: Double) = "%${(x * 100).toInt()}"
```

[Dosya #61/84] Proje Yolu: app/src/main/java/fan/superai/ui/HomeScreen.kt

BÖLÜM 8 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 8.194 B (8.0 KB) | Satır: 136 satır SHA-256: fb5fadfac9b4409f94eb4da4849526b6…

```
package fan.superai.ui

import androidx.compose.foundation.background
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Box
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.Spacer
import androidx.compose.foundation.layout.fillMaxHeight
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.layout.width
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.foundation.verticalScroll
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.runtime.collectAsState
import androidx.compose.runtime.getValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
```

[Dosya #61/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/HomeScreen.kt (Satır 24 ve sonrası)

```
24 import androidx.compose.ui.draw.clip
25 import androidx.compose.ui.graphics.Color
26 import androidx.compose.ui.text.font.FontFamily
27 import androidx.compose.ui.text.font.FontWeight
28 import androidx.compose.ui.text.style.TextAlign
29 import androidx.compose.ui.unit.dp
30 import androidx.compose.ui.unit.sp
31 import fan.superai.EngineHost
32 import fan.superai.overlay.OverlayService
33 import fan.superai.recentWithEcho
34
35 @Composable
36 fun HomeScreen(onOverlay: () -> Unit) {
37     val st by EngineHost.state.collectAsState()
38     val busy by EngineHost.busy.collectAsState()
39     val disc by EngineHost.discovery.collectAsState()
40     val pyErr by EngineHost.pyError.collectAsState()
41     val running by OverlayService.running.collectAsState()
42     val echo by EngineHost.echo.collectAsState()
43     val pending by EngineHost.pending.collectAsState()
44
45     Column(Modifier.fillMaxSize().verticalScroll(rememberScrollState()).padding(12.dp)) {
46         Row(Modifier.fillMaxWidth().padding(bottom = 10.dp), verticalAlignment = Alignment.CenterVertically) {
47             Text("FAN SUPER", color = C.text, fontSize = 19.sp, fontWeight = FontWeight.Bold)
48             Spacer(Modifier.width(6.dp)); Pill("v1.4")
49             Spacer(Modifier.weight(1f))
50             Pill(if (running) "● Overlay AÇIK" else "○ Overlay KAPALI", bg = if (running) C.blue else C.border,
51                 fg = Color.White, onClick = onOverlay)
52         }
53         BusyBanner(busy)
54         pyErr?.let { Text("⚠ $it", color = C.danger, fontSize = 12.sp, modifier = Modifier.padding(bottom = 8.dp)) }
55
56         val v = st?.verdict
57         val fin by EngineHost.finalPrediction.collectAsState()
58         FCard("🎯 Tahmin") {
59             val f = fin
60             if (f != null) {
61                 if (st?.learning == true) {
62                     Text("Öğreniyor… ${st?.count}/50", color = C.muted, fontSize = 22.sp, modifier = Modifier.fillMaxWidth(), textAlign = TextAlign.Center)
63                 } else {
64                     // v1.4: tek/çift kararına göre "1" ya da "1/2" gösterilir.
65                     Text(f.numberLabel, color = Color(0xFFA5D6A7), fontSize = 54.sp, fontWeight = FontWeight.ExtraBold,
66                         modifier = Modifier.fillMaxWidth(), textAlign = TextAlign.Center)
67                     Muted("güven ${pct(f.confidence)} · entropi ${"%.2f".format(f.entropy)} · ${f.regime}", Modifier.fillMaxWidth())
68                 }
69                 Row(Modifier.fillMaxWidth().padding(top = 8.dp), horizontalArrangement = Arrangement.Center, verticalAlignment = Alignment.CenterVertically) {
70                     Text("☆ ", fontSize = 18.sp)
71                     Text(f.side.display, color = C.purple, fontSize = 20.sp, fontWeight = FontWeight.Bold)
72                     Text("  ${pct(f.sideConfidence)}", color = C.muted, fontSize = 13.sp)
73                 }
74                 Muted("Kilit ${f.predictionLockId} · ensemble v${f.ensembleVersion}", Modifier.fillMaxWidth().padding(top = 4.dp))
75             } else if (st?.learning == true) {
76                 Text("Öğreniyor… ${st?.count}/50", color = C.muted, fontSize = 22.sp, modifier = Modifier.fillMaxWidth(), textAlign = TextAlign.Center)
77             } else {
78                 Text(v?.label?.replace("/", " / ") ?: "--", color = if (v?.secondary == null) Color(0xFFA5D6A7) else C.text,
79                     fontSize = 54.sp, fontWeight = FontWeight.ExtraBold, modifier = Modifier.fillMaxWidth(), textAlign = TextAlign.Center)
80                 Muted("güven ${v?.let { pct(it.confidence) } ?: "--"}", Modifier.fillMaxWidth().then(Modifier))
81             }
82             if (f == null) Row(Modifier.fillMaxWidth().padding(top = 8.dp), horizontalArrangement = Arrangement.Center, verticalAlignment = Alignment.CenterVertically) {
83                 Text("☆ ", fontSize = 18.sp)
84                 val hit = st?.lastSideHit == true
85                 Text((v?.sideLabel?.replace("•", " • ") ?: "--") + if (hit) " =" else "", color = if (hit) C.lightGreen else C.purple,
86                     fontSize = 20.sp, fontWeight = FontWeight.Bold)
87                 Text("  ${v?.let { pct(it.sideConfidence) } ?: ""}", color = C.muted, fontSize = 13.sp)
88             }
89         }
90
91         FCard("⚖ Baş Hakem") {
92             val wk = v?.weightK ?: 1.0
93             Row(Modifier.fillMaxWidth().height(22.dp).clip(RoundedCornerShape(8.dp))) {
94                 if (wk > 0.001) Box(Modifier.weight(wk.toFloat().coerceAtLeast(0.05f)).fillMaxHeight().background(C.kotlin), contentAlignment = Alignment.Center) {
95                     Text("🛢 ${pct(wk)}", fontSize = 11.sp, color = Color.White, fontWeight = FontWeight.Bold)
96                 }
97                 if (1 - wk > 0.001) Box(Modifier.weight((1 - wk).toFloat().coerceAtLeast(0.05f)).fillMaxHeight().background(C.python), contentAlignment = Alignment.Center) {
98                     Text("🐍 ${pct(1 - wk)}", fontSize = 11.sp, color = Color.White, fontWeight = FontWeight.Bold)
```

[Dosya #61/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/HomeScreen.kt (Satır 99 ve sonrası)

```
99                  }
100             }
101             Spacer(Modifier.height(6.dp))
102             fun lab(p: DoubleArray?): String {
103                 if (p == null) return "--"
104                 val o = fan.superai.engine.P.order(p)
105                 return "${o[0] + 1}/${o[1] + 1} · ${pct(p[o[0]] + p[o[1]])}"
106             }
107             KV("🛢 Kotlin Meclisi", lab(st?.kotlinProbs))
108             KV("🐍 Python Meclisi", if (st?.pythonProbs == null) "hazırlanıyor / kapalı" else lab(st?.pythonProbs))
109         }
110
111         val sc = st?.scores
112         FCard("Başarı (son ${sc?.n ?: 0}) · şans çizgisiyle") {
113             @Composable fun row(k: String, x: Double?, chance: Int) = KV(k, "${x?.let { pct(it) } ?: "--"}  / şans %$chance",
114                 vColor = when { x == null -> C.text; x > chance / 100.0 + 0.02 -> C.lightGreen; x < chance / 100.0 - 0.02 -> C.d
↳ anger; else -> C.text })
115             row("Tek", sc?.top1, 25)
116             row("Çift (ikisinden biri)", sc?.top2, 50)
117             row("Yan (herhangi)", sc?.sideAny, 75)
118             row("Yan (ikisi birden)", sc?.sideBoth, 25)
119         }
120
121         FCard(if (pending > 0) "Veri · ⏳ $pending işlem sırada" else "Veri") {
122             KV("Kayıt", "${(st?.count ?: 0) + echo.values.size}")
123             // Düğmeye basıldığı anda görünür (echo), motor sonucu gelince gerçek değerle değişir.
124             KV("Son 6", recentWithEcho(st, echo).joinToString("  ").ifEmpty { "-" }, mono = true)
125             KV("🔍 Keşif özeti", disc?.let { if (it.lag2Watch) "gecikme-2 takipte" else it.verdict.take(28) } ?: "-", vColor = C.
↳ orange, bold = false)
126             Row(Modifier.fillMaxWidth().padding(top = 8.dp), horizontalArrangement = Arrangement.spacedBy(8.dp)) {
127                 NumButton("1", C.b1) { EngineHost.add(1) }
128                 NumButton("2", C.b2) { EngineHost.add(2) }
129                 NumButton("3", C.b3) { EngineHost.add(3) }
130                 NumButton("4", C.b4) { EngineHost.add(4) }
131             }
132             Row(Modifier.fillMaxWidth().padding(top = 8.dp)) { NumButton("⌫ Geri al", C.del, 15) { EngineHost.undo() } }
133             Muted("Sayı düğmeleri anında işlenir; ⌫ son girişi veriyi bozmadan geri alır.", Modifier.padding(top = 6.dp))
134         }
135     }
136 }
```

[Dosya #62/84] Proje Yolu: app/src/main/java/fan/superai/ui/CouncilScreen.kt BÖLÜM 8 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 8.011 B (7.8 KB) | Satır: 137 satır SHA-256: 1128502314354e62337de346e4a16ce8…

```
1  package fan.superai.ui
2
3  import androidx.compose.foundation.background
4  import androidx.compose.foundation.clickable
5  import androidx.compose.foundation.layout.Box
6  import androidx.compose.foundation.layout.Column
7  import androidx.compose.foundation.layout.Row
8  import androidx.compose.foundation.layout.fillMaxSize
9  import androidx.compose.foundation.layout.fillMaxWidth
10 import androidx.compose.foundation.layout.height
11 import androidx.compose.foundation.layout.padding
12 import androidx.compose.foundation.layout.width
13 import androidx.compose.foundation.rememberScrollState
14 import androidx.compose.foundation.verticalScroll
15 import androidx.compose.material3.AlertDialog
16 import androidx.compose.material3.Text
17 import androidx.compose.material3.TextButton
18 import androidx.compose.runtime.Composable
19 import androidx.compose.runtime.collectAsState
20 import androidx.compose.runtime.getValue
21 import androidx.compose.runtime.mutableIntStateOf
22 import androidx.compose.runtime.mutableStateOf
23 import androidx.compose.runtime.remember
24 import androidx.compose.runtime.saveable.rememberSaveable
25 import androidx.compose.runtime.setValue
26 import androidx.compose.ui.Modifier
27 import androidx.compose.ui.graphics.Color
28 import androidx.compose.ui.text.font.FontWeight
29 import androidx.compose.ui.unit.dp
30 import androidx.compose.ui.unit.sp
31 import fan.superai.EngineHost
32 import fan.superai.engine.MemberStat
33 import fan.superai.engine.P
34
35 @Composable
36 fun CouncilScreen() {
37     val st by EngineHost.state.collectAsState()
38     val busy by EngineHost.busy.collectAsState()
39     var tab by rememberSaveable { mutableIntStateOf(0) }
```

[Dosya #62/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/CouncilScreen.kt (Satır 40 ve sonrası)

```
40      var detail by remember { mutableStateOf<MemberStat?>(null) }
41
42      Column(Modifier.fillMaxSize().verticalScroll(rememberScrollState()).padding(12.dp)) {
43          Tabs(listOf("🛢 Kotlin", "🐍 Python", "☆ Yan"), tab) { tab = it }
44          BusyBanner(busy)
45          when (tab) {
46              0 -> {
47                  MemberTable("🛢 Kotlin Meclisi · ${st?.kotlinStats?.size ?: 0} üye · " +
48                      (if (fan.superai.data.Settings.value.fixedShare) "Fixed-Share Hedge" else "Hedge"),
49                      st?.kotlinStats ?: emptyList()) { detail = it }
50                  FCard("🎯 Aktif kalıp (Kalıp Arama 2.0)") {
51                      val k = st?.kalipInfo ?: emptyMap()
52                      KV("Önde olan görünüm", k["view"] ?: "-")
53                      KV("Uzunluk", k["len"] ?: "-")
54                      KV("Eşleşme sayısı", k["matches"] ?: "-")
55                      KV("Liderlik süresi", (k["since"] ?: "-") + " tur", bold = false)
56                      Muted("Görünümler: Ham · Delta · Şekil · T/Ç · K/B · Ayna", Modifier.padding(top = 6.dp))
57                  }
58                  FCard("🌊 Rejim") { KV("Şu anki rejim", st?.regime ?: "-") }
59              }
60              1 -> {
61                  if (st?.pythonStats.isNullOrEmpty()) {
62                      FCard("🐍 Python Meclisi") { Muted("Python meclisi hazırlanıyor ya da Ayarlar'dan kapatılmış.") }
63                  } else {
64                      MemberTable("🐍 Python Meclisi · ${st?.pythonStats?.size ?: 0} üye · gömülü (Chaquopy)", st?.pythonStats ?: e
↳ mptyList()) { detail = it }
65                  }
66                  FCard("⚙ Python motoru") {
67                      val i = st?.pythonInfo ?: emptyMap()
68                      KV("Durum", i["status"]?.let { "● $it" } ?: "kapalı", vColor = if (i["status"] == "çalışıyor") C.lightGreen
↳ else C.muted)
69                      KV("Ortalama adım süresi", i["ms"]?.let { "$it ms" } ?: "-")
70                      KV("Öğrenilen kayıt", i["n"] ?: "-")
71                      KV("numpy", i["numpy"] ?: "-")
72                      KV("Derin öğrenme", if (i["dl"] == "true") "açık" else if (i["dl"] == "false") "kapalı" else "-")
73                  }
74              }
75              else -> {
76                  val v = st?.verdict
77                  FCard("☆ Yan meclisi") {
78                      fun oe(p: DoubleArray?) = p?.let { val o = P.oddProb(it); (if (o >= .5) "T" else "Ç") + " · " + pct(maxOf(o,
↳  1 - o)) } ?: "--"
79                      fun kb(p: DoubleArray?) = p?.let { val b = P.bigProb(it); (if (b >= .5) "B" else "K") + " · " + pct(maxOf(b,
↳  1 - b)) } ?: "--"
80                      Text("Tek / Çift", color = C.head, fontSize = 12.sp, modifier = Modifier.padding(top = 4.dp))
81                      KV("🛢 Kotlin", oe(st?.kotlinProbs)); KV("🐍 Python", oe(st?.pythonProbs)); KV("⚖ Hakem", oe(v?.probs), vColo
↳ r = C.purple)
82                      Text("Küçük / Büyük", color = C.head, fontSize = 12.sp, modifier = Modifier.padding(top = 8.dp))
83                      KV("🛢 Kotlin", kb(st?.kotlinProbs)); KV("🐍 Python", kb(st?.pythonProbs)); KV("⚖ Hakem", kb(v?.probs), vColo
↳ r = C.purple)
84                      Text("Sonuç", color = C.head, fontSize = 12.sp, modifier = Modifier.padding(top = 8.dp))
85                      KV("Rakamdan türetilen", "${v?.label ?: "--"} → ${v?.sideLabel ?: "--"}")
86                  }
87                  FCard("Yan başarısı (son ${st?.scores?.n ?: 0})") {
88                      KV("Herhangi biri tuttu", "${st?.scores?.sideAny?.let { pct(it) } ?: "--"}  / şans %75")
89                      KV("İkisi birden tuttu", "${st?.scores?.sideBoth?.let { pct(it) } ?: "--"}  / şans %25")
90                  }
91              }
92          }
93      }
94
95      detail?.let { m ->
96          AlertDialog(onDismissRequest = { detail = null }, confirmButton = { TextButton(onClick = { detail = null }) { Text("Kapa
↳ t") } },
97              title = { Text(m.name) },
98              text = {
99                  Column {
100                     KV("Tek başarı (son ${m.n})", pct(m.top1)); KV("Çift başarı", pct(m.top2))
101                     KV("Ağırlık", String.format("%.2f", m.weight))
102                     KV("Durum", if (!m.enabled) "kapalı" else if (m.benched) "ᶻᶻ yedek kulübesi" else "oyunda")
103                     Muted("Şans çizgisi: tek %25, çift %50. Üye, son pencerede eşiğin altında kalırsa yedeğe düşer; formu düzeli
↳ nce döner.",
104                         Modifier.padding(top = 8.dp))
105                 }
106             }, containerColor = C.card)
107     }
108 }
109
110 @Composable
111 private fun MemberTable(title: String, list: List<MemberStat>, onClick: (MemberStat) -> Unit) {
112     FCard(title) {
113         Row(Modifier.fillMaxWidth().padding(vertical = 4.dp)) {
114             Text("#", color = C.head, fontSize = 11.sp, modifier = Modifier.width(28.dp))
115             Text("Üye", color = C.head, fontSize = 11.sp, modifier = Modifier.weight(1f))
116             Text("Tek", color = C.head, fontSize = 11.sp, modifier = Modifier.width(42.dp))
```

[Dosya #62/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/CouncilScreen.kt (Satır 117 ve sonrası)

```
            Text("Çift", color = C.head, fontSize = 11.sp, modifier = Modifier.width(42.dp))
            Text("Ağr.", color = C.head, fontSize = 11.sp, modifier = Modifier.width(40.dp))
        }
        var rank = 0
        list.forEach { m ->
            val active = m.enabled && !m.benched
            if (active) rank++
            val medal = when { !m.enabled -> "⛔"; m.benched -> "💤"; rank == 1 -> "🥇"; rank == 2 -> "🥈"; rank == 3 -> "🥉"; else -> "$rank" }
            val col = if (active) C.text else C.dim
            Box(Modifier.fillMaxWidth().height(1.dp).background(C.line))
            Row(Modifier.fillMaxWidth().clickable { onClick(m) }.padding(vertical = 6.dp)) {
                Text(medal, color = col, fontSize = 12.sp, modifier = Modifier.width(28.dp))
                Text(m.name, color = col, fontSize = 12.sp, modifier = Modifier.weight(1f), fontWeight = if (rank == 1 && active) FontWeight.Bold else FontWeight.Normal)
                Text(pct(m.top1), color = col, fontSize = 12.sp, modifier = Modifier.width(42.dp))
                Text(pct(m.top2), color = col, fontSize = 12.sp, modifier = Modifier.width(42.dp))
                Text(String.format("%.2f", m.weight), color = col, fontSize = 12.sp, modifier = Modifier.width(40.dp))
            }
        }
        Muted("💤 = yedek kulübesi (oy vermiyor, formu düzelirse döner) · Üyeye dokun: detay", Modifier.padding(top = 6.dp))
    }
}
```

[Dosya #63/84] Proje Yolu: app/src/main/java/fan/superai/ui/DiscoveryChartScreens.kt BÖLÜM 8 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 7.365 B (7.2 KB) | Satır: 131 satır SHA-256: 1de4cc1cfcb05c877f12378e54fedd49…

```
package fan.superai.ui

import androidx.compose.foundation.Canvas
import androidx.compose.foundation.background
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Box
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.fillMaxHeight
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.height
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.layout.width
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.shape.RoundedCornerShape
import androidx.compose.foundation.verticalScroll
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.runtime.collectAsState
import androidx.compose.runtime.getValue
import androidx.compose.runtime.mutableIntStateOf
import androidx.compose.runtime.saveable.rememberSaveable
import androidx.compose.runtime.setValue
import androidx.compose.ui.Alignment
import androidx.compose.ui.Modifier
import androidx.compose.ui.draw.clip
import androidx.compose.ui.geometry.Offset
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.graphics.Path
import androidx.compose.ui.graphics.PathEffect
import androidx.compose.ui.graphics.drawscope.Stroke
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import fan.superai.EngineHost

@Composable
fun DiscoveryScreen() {
    val d by EngineHost.discovery.collectAsState()
    Column(Modifier.fillMaxSize().verticalScroll(rememberScrollState()).padding(12.dp)) {
        val r = d
        if (r == null) { FCard("🔍 Keşif Laboratuvarı") { Muted("Testler hazırlanıyor…") }; return@Column }
        FCard("🔍 Rastgelelik testleri · ${r.n} kayıt") {
            r.tests.forEach { KV(it.name, it.result, vColor = if (it.status == 1) C.orange else if (it.status == 0) C.lightGreen else C.text, bold = it.status == 2) }
        }
        FCard("Periyot · Değişim · Gecikme") {
            r.extra.forEach { KV(it.name, it.result, vColor = if (it.status == 1) C.orange else if (it.status == 0) C.muted else C.text, bold = it.status == 2) }
        }
        FCard("Karşılıklı bilgi (gecikme 1–10)") {
            val mx = maxOf(r.mutualInfo.maxOrNull() ?: 0.0, r.miThreshold) * 1.15
            Canvas(Modifier.fillMaxWidth().height(90.dp)) {
                val bw = size.width / 10f
                r.mutualInfo.forEachIndexed { i, m ->
                    val h = (m / mx * size.height).toFloat()
```

[Dosya #63/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/DiscoveryChartScreens.kt (Satır 55 ve sonrası)

```
55                      drawRect(if (m > r.miThreshold) C.orange else C.lightBlue, Offset(i * bw + bw * 0.15f, size.height - h),
56                          androidx.compose.ui.geometry.Size(bw * 0.7f, h))
57                  }
58                  val ty = (size.height - r.miThreshold / mx * size.height).toFloat()
59                  drawLine(C.dim, Offset(0f, ty), Offset(size.width, ty), 2f, pathEffect = PathEffect.dashPathEffect(floatArrayOf(
    8f, 8f)))
60              }
61              Row(Modifier.fillMaxWidth()) { (1..10).forEach { Text("$it", color = C.dim, fontSize = 10.sp, modifier = Modifier.we
    ight(1f), textAlign = androidx.compose.ui.text.style.TextAlign.Center) } }
62              Muted("Kesikli çizgi: anlamlılık sınırı (%99)")
63          }
64          FCard("🎯 Karar", borderColor = C.orange.copy(alpha = 0.35f)) {
65              Text(r.verdict, color = C.text, fontSize = 13.sp)
66              Row(Modifier.fillMaxWidth().padding(top = 8.dp)) { NumButton("▶ Testleri yeniden çalıştır", C.blue, 14) { EngineHost
    .rerunDiscovery() } }
67          }
68      }
69  }
70
71  @Composable
72  private fun LineChart(series: List<Pair<List<Double>, Color>>, chance: Double) {
73      val all = series.flatMap { it.first } + chance
74      if (series.all { it.first.isEmpty() }) { Muted("Grafik için yeterli veri yok (en az 50 değerlendirilmiş tahmin)."); return }
75      val lo = (all.minOrNull() ?: 0.0) - 0.03; val hi = (all.maxOrNull() ?: 1.0) + 0.03
76      Row {
77          Column(Modifier.width(32.dp).height(160.dp), verticalArrangement = Arrangement.SpaceBetween) {
78              Text(pct(hi), color = C.dim, fontSize = 9.sp); Text(pct((hi + lo) / 2), color = C.dim, fontSize = 9.sp); Text(pct(lo
    ), color = C.dim, fontSize = 9.sp)
79          }
80          Canvas(Modifier.weight(1f).height(160.dp)) {
81              fun y(v: Double) = (size.height - (v - lo) / (hi - lo) * size.height).toFloat()
82              drawLine(Color(0xFFAAAAAA), Offset(0f, y(chance)), Offset(size.width, y(chance)), 2f, pathEffect = PathEffect.dashPa
    thEffect(floatArrayOf(10f, 10f)))
83              series.forEach { (s, c) ->
84                  if (s.size < 2) return@forEach
85                  val p = Path()
86                  s.forEachIndexed { i, v -> val x = i * size.width / (s.size - 1); if (i == 0) p.moveTo(x, y(v)) else p.lineTo(x,
     y(v)) }
87                  drawPath(p, c, style = Stroke(width = if (c == C.orange) 5f else 3f))
88              }
89          }
90      }
91  }
92
93  @Composable
94  fun ChartScreen() {
95      val ch by EngineHost.charts.collectAsState()
96      var tab by rememberSaveable { mutableIntStateOf(0) }
97      Column(Modifier.fillMaxSize().verticalScroll(rememberScrollState()).padding(12.dp)) {
98          Tabs(listOf("Tek", "Çift", "Yan"), tab) { tab = it }
99          val c = ch
100         FCard("Kayan başarı (50'lik pencere)") {
101             if (c != null) {
102                 val chance = when (tab) { 0 -> 0.25; 1 -> 0.5; else -> 0.75 }
103                 LineChart(listOf(c.kot[tab] to C.lightBlue, c.py[tab] to C.lightGreen, c.ref[tab] to C.orange), chance)
104             }
105             Row(Modifier.padding(top = 6.dp), horizontalArrangement = Arrangement.spacedBy(10.dp)) {
106                 Text("— Hakem", color = C.orange, fontSize = 12.sp); Text("— Kotlin", color = C.lightBlue, fontSize = 12.sp)
107                 Text("— Python", color = C.lightGreen, fontSize = 12.sp); Text("··· şans", color = C.muted, fontSize = 12.sp)
108             }
109         }
110         FCard("Sayı dağılımı") {
111             val dist = c?.dist ?: IntArray(4)
112             val mx = (dist.maxOrNull() ?: 1).coerceAtLeast(1)
113             val cols = listOf(C.b1, C.b2, C.b3, C.b4)
114             dist.forEachIndexed { i, n ->
115                 Row(Modifier.fillMaxWidth().padding(vertical = 4.dp), verticalAlignment = Alignment.CenterVertically) {
116                     Text("${i + 1}", color = C.text, fontSize = 13.sp, modifier = Modifier.width(18.dp))
117                     Box(Modifier.weight(1f).height(9.dp).clip(RoundedCornerShape(4.dp)).background(C.border)) {
118                         Box(Modifier.fillMaxWidth(n.toFloat() / mx).fillMaxHeight().background(cols[i]))
119                     }
120                     Text("$n", color = C.text, fontSize = 13.sp, modifier = Modifier.padding(start = 8.dp).width(42.dp))
121                 }
122             }
123         }
124         FCard("Güven kalibrasyonu") {
125             val t = when (tab) { 0 -> c?.calSingle; 1 -> c?.calPair; else -> c?.calSide } ?: emptyList()
126             if (t.isEmpty()) Muted("Henüz veri yok.")
127             t.forEach { (lo, n, rate) -> KV("%${(lo * 100).toInt()}–${(lo * 100).toInt() + 5} denilen ($n)", "${pct(rate)} tuttu
    ") }
128             Muted("Kalibrasyon açıkken ekrandaki yüzde bu tabloya göre düzeltilir.", Modifier.padding(top = 4.dp))
129         }
130     }
131 }
```

[Dosya #64/84] Proje Yolu: app/src/main/java/fan/superai/ui/ResearchScreen.kt

BÖLÜM 8 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 3.569 B (3.5 KB) | Satır: 68 satır SHA-256: 731e1f555a68577f707a41625e0965b9…

```kotlin
package fan.superai.ui

import androidx.compose.foundation.background
import androidx.compose.foundation.layout.Arrangement
import androidx.compose.foundation.layout.Column
import androidx.compose.foundation.layout.Row
import androidx.compose.foundation.layout.fillMaxSize
import androidx.compose.foundation.layout.fillMaxWidth
import androidx.compose.foundation.layout.padding
import androidx.compose.foundation.rememberScrollState
import androidx.compose.foundation.verticalScroll
import androidx.compose.material3.Text
import androidx.compose.runtime.Composable
import androidx.compose.runtime.collectAsState
import androidx.compose.runtime.getValue
import androidx.compose.ui.Modifier
import androidx.compose.ui.graphics.Color
import androidx.compose.ui.text.font.FontWeight
import androidx.compose.ui.unit.dp
import androidx.compose.ui.unit.sp
import fan.superai.EngineHost

@Composable
fun ResearchScreen() {
    Column(Modifier.fillMaxSize().verticalScroll(rememberScrollState()).padding(12.dp)) { ResearchContent() }
}

/** v1.2 araştırma içeriği (kaydırma kabı olmadan): FAN LAB › Overview altında korunur. */
@Composable
fun ResearchContent() {
    val r by EngineHost.research.collectAsState()
    Column(Modifier.fillMaxWidth()) {
        FCard("🧪 FAN LAB · Model doğrulama") {
            Text(r?.status ?: "Analiz hazırlanıyor…", color=C.orange, fontSize=18.sp, fontWeight=FontWeight.Bold)
            Muted("Bu ekran mevcut motorun kronolojik tahmin kayıtlarını kullanır. Gelecek bilgi geçmiş tahmine geri sızdırılmaz.", Modifier.padding(top=5.dp))
        }
        r?.let { x ->
            FCard("Walk-forward sonuçları") {
                KV("Değerlendirilen tahmin", "${x.n}")
                KV("Top-1", pct(x.walkForwardTop1), if(x.walkForwardTop1>=0.25) C.lightGreen else C.danger)
                KV("Top-2", pct(x.walkForwardTop2), if(x.walkForwardTop2>=0.50) C.lightGreen else C.danger)
                KV("Random baseline", pct(x.randomBaseline), C.muted)
                KV("Bootstrap %95 aralık", "${pct(x.bootstrapLo)} – ${pct(x.bootstrapHi)}")
            }
            FCard("Olasılık kalitesi") {
                KV("Log loss", "%.4f".format(x.logLoss))
                KV("Brier score", "%.4f".format(x.brier))
                KV("Ortalama entropy", "%.4f".format(x.entropy))
                KV("Kalibrasyon farkı", "%.4f".format(x.calibrationGap))
                KV("Son 100 Top-1", pct(x.recentTop1))
                KV("Son 100 log loss", "%.4f".format(x.recentLogLoss))
            }
            FCard("Model çeşitliliği") {
                KV("Üyeler farklı tahmin verdi", pct(x.memberDisagreement))
                KV("Ortalama JS diversity", "%.4f".format(x.memberDiversity))
                Muted("Yüksek çeşitlilik modellerin aynı bilgiyi tekrar etmediğini; çok düşük değerler ise güçlü korelasyonu gösterir.", Modifier.padding(top=4.dp))
            }
            FCard("Permutation testi") {
                KV("p-değeri", "%.4f".format(x.permutationP))
                KV("Percentile", pct(x.permutationPercentile))
                Muted("Gerçek sonuç sırası rastgele karıştırılarak aynı tahmin dizisi üzerinde karşılaştırma yapılır.", Modifier.padding(top=4.dp))
            }
            Row(Modifier.fillMaxWidth(), horizontalArrangement=Arrangement.spacedBy(8.dp)) {
                NumButton("↻ FAN LAB'ı yeniden çalıştır", C.blue, 13) { EngineHost.rerunResearch() }
            }
        } ?: Muted("Henüz yeterli kayıt yok.")
    }
}
```

[Dosya #65/84] Proje Yolu: app/src/main/java/fan/superai/ui/FanLabScreen.kt

BÖLÜM 8 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 23.629 B (23.1 KB) | Satır: 419 satır SHA-256: 9245845f997b8abc92062a2ac0c2e539…

```kotlin
package fan.superai.ui

import androidx.compose.foundation.background
import androidx.compose.foundation.clickable
import androidx.compose.foundation.horizontalScroll
import androidx.compose.foundation.layout.Arrangement
```

[Dosya #65/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/FanLabScreen.kt (Satır 7 ve sonrası)

```
7  import androidx.compose.foundation.layout.Box
8  import androidx.compose.foundation.layout.Column
9  import androidx.compose.foundation.layout.Row
10 import androidx.compose.foundation.layout.fillMaxSize
11 import androidx.compose.foundation.layout.fillMaxWidth
12 import androidx.compose.foundation.layout.padding
13 import androidx.compose.foundation.layout.size
14 import androidx.compose.foundation.layout.width
15 import androidx.compose.foundation.rememberScrollState
16 import androidx.compose.foundation.shape.RoundedCornerShape
17 import androidx.compose.foundation.verticalScroll
18 import androidx.compose.material3.Text
19 import androidx.compose.runtime.Composable
20 import androidx.compose.runtime.LaunchedEffect
21 import androidx.compose.runtime.collectAsState
22 import androidx.compose.runtime.getValue
23 import androidx.compose.runtime.mutableIntStateOf
24 import androidx.compose.runtime.mutableStateListOf
25 import androidx.compose.runtime.mutableStateOf
26 import androidx.compose.runtime.remember
27 import androidx.compose.runtime.rememberCoroutineScope
28 import androidx.compose.runtime.saveable.rememberSaveable
29 import androidx.compose.runtime.setValue
30 import androidx.compose.ui.Alignment
31 import androidx.compose.ui.Modifier
32 import androidx.compose.ui.draw.clip
33 import androidx.compose.ui.graphics.Color
34 import androidx.compose.ui.text.font.FontFamily
35 import androidx.compose.ui.text.font.FontWeight
36 import androidx.compose.ui.unit.dp
37 import androidx.compose.ui.unit.sp
38 import fan.superai.EngineHost
39 import fan.superai.v13.Axis
40 import fan.superai.v13.CfResult
41 import fan.superai.v13.FinalPrediction
42 import fan.superai.v13.ModelRow
43 import fan.superai.v13.PredictionExplanation
44 import fan.superai.v13.V13Insights
45 import fan.superai.v13.db.PredictionRecordEntity
46 import kotlinx.coroutines.Dispatchers
47 import kotlinx.coroutines.launch
48 import kotlinx.coroutines.withContext
49 import kotlin.math.abs
50
51 private val TABS = listOf("Overview", "Models", "Side Analysis", "Replay", "Calibration", "Diversity", "Regime", "Counterfactual
↳ ")
52 private val AXES = listOf("NUMBER" to "Rakam", "BS" to "Büyük/Küçük", "OE" to "Tek/Çift", "COMB" to "Birleşik yan")
53
54 private fun f2(x: Double) = "%.2f".format(x)
55 private fun f3(x: Double) = "%.3f".format(x)
56 private fun f4(x: Double) = "%.4f".format(x)
57
58 /** FAN LAB: 8 sekme (kaydırılabilir). Overview altında v1.2 araştırma içeriği korunur. */
59 @Composable
60 fun FanLabScreen() {
61     var tab by rememberSaveable { mutableIntStateOf(0) }
62     val ins by EngineHost.v13Insights.collectAsState()
63     val fin by EngineHost.finalPrediction.collectAsState()
64     Column(Modifier.fillMaxSize()) {
65         Row(Modifier.fillMaxWidth().horizontalScroll(rememberScrollState()).padding(start = 12.dp, end = 12.dp, top = 10.dp, bot
↳ tom = 6.dp),
66             horizontalArrangement = Arrangement.spacedBy(6.dp)) {
67             TABS.forEachIndexed { i, t ->
68                 Text(t, color = if (i == tab) Color.White else C.muted, fontSize = 12.sp,
69                     modifier = Modifier.clip(RoundedCornerShape(9.dp)).background(if (i == tab) C.blue else C.card)
70                         .clickable { tab = i }.padding(horizontal = 12.dp, vertical = 8.dp))
71             }
72         }
73         Column(Modifier.weight(1f).fillMaxWidth().verticalScroll(rememberScrollState()).padding(horizontal = 12.dp, vertical = 4
↳ .dp)) {
74             when (tab) {
75                 0 -> OverviewTab(ins, fin)
76                 1 -> ModelsTab(ins)
77                 2 -> SideTab(ins, fin)
78                 3 -> ReplayTab()
79                 4 -> CalibrationTab(ins)
80                 5 -> DiversityTab(ins)
81                 6 -> RegimeTab(ins)
82                 else -> CounterfactualTab(fin)
83             }
84         }
85     }
86 }
87
88 @Composable
```

[Dosya #65/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/FanLabScreen.kt (Satır 89 ve sonrası)

```
89  private fun Mono(t: String, color: Color = C.text, size: Int = 11, modifier: Modifier = Modifier) =
90      Text(t, color = color, fontSize = size.sp, fontFamily = FontFamily.Monospace, modifier = modifier)
91
92  @Composable
93  private fun TableRow(cells: List<String>, widths: List<Int>, header: Boolean = false, color: Color = C.text) {
94      Row(Modifier.fillMaxWidth().padding(vertical = 2.dp)) {
95          cells.forEachIndexed { i, c ->
96              Text(c, color = if (header) C.head else color, fontSize = 11.sp, fontFamily = FontFamily.Monospace,
97                  fontWeight = if (header) FontWeight.Bold else FontWeight.Normal, maxLines = 1,
98                  modifier = if (widths[i] == 0) Modifier.weight(1f) else Modifier.width(widths[i].dp))
99          }
100     }
101 }
102
103 @Composable
104 private fun Lines(prefix: String, items: List<String>, color: Color) {
105     items.forEach { Text("$prefix $it", color = color, fontSize = 12.sp, modifier = Modifier.padding(vertical = 1.dp)) }
106 }
107
108 @Composable
109 private fun ExplanationCards(e: PredictionExplanation) {
110     FCard("Rakam açıklaması (gerçek hesaplardan)") {
111         if (e.numberPositive.isEmpty() && e.numberNegative.isEmpty()) Muted("Veri yok")
112         Lines("+", e.numberPositive, C.lightGreen); Lines("−", e.numberNegative, C.danger)
113     }
114     FCard("Yan açıklaması") {
115         Lines("+", e.sidePositive, C.lightGreen); Lines("−", e.sideNegative, C.danger)
116         Lines("·", e.sideDetail, C.muted)
117     }
118 }
119
120 // ========================================================================================== Overview
121 @Composable
122 private fun OverviewTab(ins: V13Insights?, fin: FinalPrediction?) {
123     val status by EngineHost.v13Status.collectAsState()
124     FCard("🧠 v1.4 Meta-Ensemble · nihai tahmin") {
125         if (fin == null) Muted(status.error ?: status.message.ifEmpty { "Hazırlanıyor…" })
126         else {
127             KV("Rakam", "${fin.numberLabel}  (güven ${pct(fin.confidence)})")
128             KV("Yan", "${fin.side.display}  (güven ${pct(fin.sideConfidence)})")
129             KV("Entropi", f3(fin.entropy))
130             KV("Rejim", fin.regime)
131             KV("Ensemble", "v${fin.ensembleVersion}")
132             KV("Kilit", fin.predictionLockId, mono = true)
133             KV("Sıra / son bilinen kayıt", "#${fin.predictionSequence} / #${fin.lastKnownRecordId}", mono = true)
134             Muted("Rakam dağılımı: " + fin.numberDistribution.probabilities.withIndex().joinToString("  ") { "${it.index + 1}:${
↳ pct(it.value)}" })
135         }
136         status.error?.let { Text("⚠ $it", color = C.danger, fontSize = 12.sp, modifier = Modifier.padding(top = 4.dp)) }
137     }
138     ins?.let { x ->
139         val s = x.stats
140         FCard("Başarı (v1.4 nihai, n=${s.total}) · baseline'larla") {
141             @Composable fun row(k: String, v: Double, base: Double, causal: Double) =
142                 KV(k, "${pct(v)} · şans ${pct(base)} · çoğunluk ${pct(causal)}", vColor = if (s.total < 30) C.text else if (v >
↳ base + 0.02) C.lightGreen else if (v < base - 0.02) C.danger else C.text)
143             row("Rakam Top-1", s.numberAcc, 0.25, s.baseNumber)
144             KV("Rakam Top-2", "${pct(s.top2Acc)} · şans %50")
145             row("Büyük/Küçük", s.bsAcc, 0.5, s.baseBs)
146             row("Tek/Çift", s.oeAcc, 0.5, s.baseOe)
147             row("Yan (ikisi birden)", s.sideAcc, 0.25, s.baseSide)
148             KV("Log loss / Brier", "${f3(s.numberLL)} / yan LL ${f3(s.sideLL)}")
149             KV("Son ${s.recentN}", "rakam ${pct(s.recentNumber)} · yan ${pct(s.recentSide)}")
150             Muted("Veri neredeyse rastgeledir; şans çizgisinin üstü kalıcı değilse bunu başarı saymayın (Replay › permutation te
↳ stine bakın).", Modifier.padding(top = 4.dp))
151         }
152         FCard("Sızıntı denetimi") {
153             KV("Kontrol / ihlal", "${x.leakChecks} / ${x.leakViolations}", vColor = if (x.leakViolations == 0L) C.lightGreen els
↳ e C.danger)
154             x.leakMessages.takeLast(3).forEach { Muted(it) }
155         }
156     }
157     fin?.let { ExplanationCards(it.explanation) }
158     PredictionHistory()
159     FCard("Olay günlüğü (son 12)") {
160         val ev = fan.superai.v13.FanLog.recent(12)
161         if (ev.isEmpty()) Muted("Henüz olay yok")
162         ev.asReversed().forEach { Mono("${it.event} ${it.message}".take(90), color = if (it.event == "ERROR") C.danger else C.mu
↳ ted, size = 10) }
163     }
164     Muted("— v1.2 araştırma (walk-forward) —", Modifier.padding(top = 10.dp, bottom = 4.dp))
165     ResearchContent()
166 }
167
168 @Composable
```

[Dosya #65/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/FanLabScreen.kt (Satır 169 ve sonrası)

```kotlin
169 private fun PredictionHistory() {
170     val ins by EngineHost.v13Insights.collectAsState()
171     val rows = remember { mutableStateListOf<PredictionRecordEntity>() }
172     var total by remember { mutableIntStateOf(0) }
173     var selected by remember { mutableIntStateOf(-1) }
174     var expl by remember { mutableStateOf<PredictionExplanation?>(null) }
175     val scope = rememberCoroutineScope()
176     val page = 30
177     LaunchedEffect(ins?.count) {
178         val first = withContext(Dispatchers.IO) { EngineHost.predictionPage(0, maxOf(page, rows.size)) to EngineHost.predictionTotal() }
179         rows.clear(); rows.addAll(first.first); total = first.second
180     }
181     FCard("Tahmin geçmişi · $total kayıt (sayfalı)") {
182         if (rows.isEmpty()) Muted("Henüz tahmin kaydı yok.")
183         rows.forEach { r ->
184             val ok = r.sideHit
185             val res = if (r.actualNumber == null) "bekliyor" else
186                 "gerçek ${r.actualNumber} ${if (r.numberHit == true) "✓" else "✗"} · yan ${if (ok == true) "✓" else "✗"}"
187             Column(Modifier.fillMaxWidth().clickable {
188                 selected = if (selected == r.sequence) -1 else r.sequence
189                 if (selected >= 0 && r.mode == "LIVE") scope.launch { expl = withContext(Dispatchers.IO) { EngineHost.explanationFor(r.sequence) } } else expl = null
190             }.padding(vertical = 3.dp)) {
191                 Mono("#${r.sequence + 1} ${r.mode.take(1)} · ${r.predictedNumber} · ${sideTr(r)} · %${(r.confidence * 100).toInt()} → $res",
192                     color = when { r.actualNumber == null -> C.orange; r.sideHit == true -> C.lightGreen; else -> C.text })
193                 if (selected == r.sequence) {
194                     Muted("kilit ${r.lockId} · ${r.regime} · entropi ${f3(r.entropy)}")
195                     expl?.let { e ->
196                         Lines("+", e.numberPositive.take(3) + e.sidePositive.take(3), C.lightGreen)
197                         Lines("−", e.numberNegative.take(3) + e.sideNegative.take(3), C.danger)
198                     }
199                 }
200             }
201         }
202         if (rows.size < total) Text("Daha fazla yükle", color = C.lightBlue, fontSize = 13.sp,
203             modifier = Modifier.padding(top = 8.dp).clickable {
204                 scope.launch {
205                     val more = withContext(Dispatchers.IO) { EngineHost.predictionPage(rows.size, page) }
206                     rows.addAll(more)
207                 }
208             })
209     }
210 }
211
212 private fun sideTr(r: PredictionRecordEntity): String =
213     (if (r.bigSmall == "BIG") "BÜYÜK" else "KÜÇÜK") + "+" + (if (r.oddEven == "ODD") "TEK" else "ÇİFT")
214
215 // ========================================================================================== Models
216 @Composable
217 private fun ModelsTab(ins: V13Insights?) {
218     if (ins == null) { Muted("Hazırlanıyor…"); return }
219     Muted("Her model aynı biçimde (olasılık dağılımı) meta-ensemble'a girer; ağırlıklar performans, kalibrasyon, çeşitlilik ve rejime göre yumuşak güncellenir.", Modifier.padding(bottom = 6.dp))
220     AXES.forEach { (key, title) ->
221         val rows: List<ModelRow> = ins.models[key] ?: emptyList()
222         FCard("$title · ${rows.size} model · τ=${f2(ins.tau[key] ?: 1.0)}") {
223             TableRow(listOf("Model", "ağ.", "n", "top1", "LL", "son"), listOf(0, 40, 36, 40, 44, 40), header = true)
224             rows.forEach { r ->
225                 val icon = if (r.group == fan.superai.v13.Group.PYTHON) "🐍" else "🌐"
226                 TableRow(listOf("$icon ${r.name.substringAfter("· ")}".take(26), pct(r.weight), "${r.n}", pct(r.top1), f2(r.logLoss), pct(r.recent)),
227                     listOf(0, 40, 36, 40, 44, 40))
228             }
229             if (rows.isEmpty()) Muted("Bu eksende model yok")
230         }
231     }
232 }
233
234 // ========================================================================================== Side
235 @Composable
236 private fun SideTab(ins: V13Insights?, fin: FinalPrediction?) {
237     if (fin == null || ins == null) { Muted("Hazırlanıyor…"); return }
238     val sd = fin.sideDistribution
239     FCard("Nihai yan (rakamdan türetilmez)") {
240         KV("Büyük / Küçük", "BÜYÜK ${pct(sd.bigSmall[1])} · KÜÇÜK ${pct(sd.bigSmall[0])}")
241         KV("Tek / Çift", "TEK ${pct(sd.oddEven[1])} · ÇİFT ${pct(sd.oddEven[0])}")
242         KV("Seçim", fin.side.display, vColor = C.purple)
243         Muted("Birleşik: " + (0 until 4).joinToString(" · ") { "${fan.superai.v13.CombinedSide.fromIndex(it).display} ${pct(sd.combined[it])}" })
244     }
245     ins.sequences.forEach { sv ->
246         val title = AXES.first { it.first == sv.axis }.second
247         FCard("$title · dizi analizi") {
```

[Dosya #65/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/FanLabScreen.kt (Satır 248 ve sonrası)

```
            val tot = sv.counts.sum().coerceAtLeast(1.0)
            Muted("Frekans: " + sv.labels.indices.joinToString(" · ") { "${sv.labels[it]} ${pct(sv.counts[it] / tot)}" })
            if (sv.last >= 0) {
                val k = sv.labels.size
                val rowSum = (0 until k).sumOf { sv.transitions[sv.last * k + it] }.coerceAtLeast(1.0)
                Muted("Son: ${sv.labels[sv.last]} · seri ${sv.run} · aynı devam etme oranı ${pct(sv.transitions[sv.last * k + sv.last] / rowSum)} (gözlenen; kumarbaz yanılgısı yok)",
                    Modifier.padding(top = 2.dp))
            }
            val k = sv.labels.size
            Muted("Geçiş matrisi (satır: önceki → sütun: sonraki)", Modifier.padding(top = 6.dp))
            TableRow(listOf("") + sv.labels.map { it.take(10) }, listOf(70) + List(k) { 0 }, header = true)
            for (i in 0 until k) {
                val rs = (0 until k).sumOf { sv.transitions[i * k + it] }.coerceAtLeast(1.0)
                TableRow(listOf(sv.labels[i].take(9)) + (0 until k).map { pct(sv.transitions[i * k + it] / rs) }, listOf(70) + List(k) { 0 })
            }
        }
    }
    ExplanationCards(fin.explanation)
}

// ========================================================================================== Replay
@Composable
private fun ReplayTab() {
    val busy by EngineHost.v13ResearchBusy.collectAsState()
    val out by EngineHost.v13Research.collectAsState()
    FCard("Replay · RESEARCH modu") {
        Muted("Kronolojik: yalnızca geçmiş → tahmin → LOCK → gerçek sonuç → değerlendirme → öğrenme. Sandbox çalışır; canlı state ve overlay etkilenmez.")
        Row(Modifier.fillMaxWidth().padding(top = 8.dp), horizontalArrangement = Arrangement.spacedBy(8.dp)) {
            NumButton(if (busy == null) "▶ Research Replay" else "⏳ çalışıyor", C.blue, 13) { EngineHost.runResearchReplay() }
            NumButton("⟲ Full Replay (canlı)", C.del, 13) { EngineHost.fullReplay() }
        }
        busy?.let { Text(it, color = C.orange, fontSize = 12.sp, modifier = Modifier.padding(top = 6.dp)) }
        Muted("Full Replay yalnızca elle başlatılır: canlı model durumunu baştan kurar (canlı tahmin geçmişi korunur).", Modifier.padding(top = 4.dp))
    }
    val o = out ?: run { Muted("Henüz research replay çalıştırılmadı."); return }
    val r = o.result
    FCard("Replay özeti") {
        KV("Kayıt / tahmin", "${r.total} / ${r.steps.size}")
        KV("Süre", "${o.durationMs / 1000.0} sn")
        KV("Sıra doğru", if (r.orderOk) "evet" else "HAYIR", vColor = if (r.orderOk) C.lightGreen else C.danger)
        KV("Sızıntı kontrolü / ihlal", "${r.leakChecks} / ${r.leakViolations}", vColor = if (r.leakViolations == 0L) C.lightGreen else C.danger)
        KV("Python dahil", if (r.includesPython) "evet" else "hayır")
        KV("Tekrarlanabilirlik parmak izi", java.lang.Long.toHexString(o.fingerprint), mono = true)
        r.errors.take(3).forEach { Text(it, color = C.danger, fontSize = 11.sp) }
    }
    val s = o.summary
    FCard("Metrikler · bootstrap %95 (n=${s.n}, ilk ${s.skipped} ısınma hariç)") {
        TableRow(listOf("Metrik", "değer", "aralık", "baseline"), listOf(0, 52, 100, 56), header = true)
        s.metrics.forEach { m ->
            val better = if (m.higherIsBetter) m.lo > m.baseline else m.hi < m.baseline
            TableRow(listOf(m.name, f3(m.value), "${f3(m.lo)}–${f3(m.hi)}", f3(m.baseline)), listOf(0, 52, 100, 56),
                color = if (better) C.lightGreen else C.text)
        }
        Muted("Yeşil: güven aralığı baseline'ın tamamen iyi tarafında.", Modifier.padding(top = 4.dp))
    }
    FCard("Permutation testi") {
        s.permutations.forEach { p -> KV(p.name, "isabet ${pct(p.observed)} · p=${f3(p.pValue)} · percentile ${pct(p.percentile)}",
            vColor = if (p.pValue < 0.05) C.lightGreen else C.text) }
        Muted("p < 0.05 olmadıkça sonuç şanstan ayırt edilemez.", Modifier.padding(top = 4.dp))
    }
    FCard("Baseline'lar") {
        s.causalBaseline.forEach { (k, v) -> KV("$k · nedensel çoğunluk", pct(v)) }
        KV("Rakam rastgele", "%25 (1/N, N=4)"); KV("Yan rastgele", "%50 · birleşik %25")
    }
}

// ========================================================================================== Calibration
@Composable
private fun CalibrationTab(ins: V13Insights?) {
    if (ins == null) { Muted("Hazırlanıyor…"); return }
    ins.calibration.forEach { c ->
        val title = AXES.first { it.first == c.axis }.second
        FCard("$title · nihai kalibrasyon (n=${c.n})") {
            KV("Doğruluk", pct(c.accuracy)); KV("Güven-isabet boşluğu", f3(c.gap))
            KV("Brier", f4(c.brier)); KV("Log loss", f4(c.logLoss)); KV("Ortalama entropi", f4(c.entropy))
            if (c.bins.isNotEmpty()) {
                TableRow(listOf("güven aralığı", "n", "ort.güven", "isabet"), listOf(0, 40, 70, 56), header = true)
                c.bins.forEach { b -> TableRow(listOf("${pct(b.lo)}–${pct(b.hi)}", "${b.n}", pct(b.meanConf), pct(b.accuracy)), listOf(0, 40, 70, 56),
```

[Dosya #65/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/FanLabScreen.kt (Satır 326 ve sonrası)

```
                    color = if (abs(b.meanConf - b.accuracy) < 0.08) C.text else C.orange) }
            }
        }
    }
}

// ========================================================================================== Diversity
@Composable
private fun DiversityTab(ins: V13Insights?) {
    if (ins == null) { Muted("Hazırlanıyor…"); return }
    ins.diversity.forEach { d ->
        val title = AXES.first { it.first == d.axis }.second
        FCard("$title · ${d.ids.size} model") {
            KV("Nihaiyle ayrışma (EWMA)", pct(d.disagreement)); KV("Ortalama JS çeşitliliği", f4(d.diversity))
            val pairs = ArrayList<Triple<Int, Int, Double>>()
            for (i in d.ids.indices) for (j in i + 1 until d.ids.size) pairs.add(Triple(i, j, d.corr[i][j]))
            if (pairs.isNotEmpty()) {
                Muted("En çok korele çiftler (ağırlık cezası uygulanır):", Modifier.padding(top = 4.dp))
                pairs.sortedByDescending { it.third }.take(5).forEach { (i, j, c) ->
                    Mono("${d.names[i].substringAfter("· ").take(14)} ↔ ${d.names[j].substringAfter("· ").take(14)}  r=${f2(c)} uyum=${pct(d.agree[i][j])}", size = 10)
                }
                Muted("Korelasyon matrisi:", Modifier.padding(top = 6.dp))
                Column {
                    for (i in d.ids.indices) Row {
                        for (j in d.ids.indices) {
                            val v = d.corr[i][j].coerceIn(-1.0, 1.0)
                            val col = if (v >= 0) Color(0xFF1565C0).copy(alpha = (0.15 + 0.85 * v).toFloat()) else Color(0xFFC62828).copy(alpha = (0.15 + 0.85 * -v).toFloat())
                            Box(Modifier.size(if (d.ids.size > 14) 9.dp else 14.dp).padding(0.5.dp).background(col))
                        }
                    }
                }
            }
        }
    }
}

// ========================================================================================== Regime
@Composable
private fun RegimeTab(ins: V13Insights?) {
    if (ins == null) { Muted("Hazırlanıyor…"); return }
    val rg = ins.regime
    FCard("Rejim motoru · şu an ${rg.current} (${rg.duration} adım)") {
        TableRow(listOf("Rejim", "adım", "n", "rakam", "top2", "yan"), listOf(0, 48, 44, 48, 48, 48), header = true)
        rg.rows.forEach { r ->
            TableRow(listOf((if (r.current) "▶ " else "  ") + r.name, "${r.steps}", "${r.n}", pct(r.numberAcc), pct(r.top2Acc), pct(r.sideAcc)),
                listOf(0, 48, 44, 48, 48, 48), color = if (r.current) C.lightBlue else C.text)
        }
        Muted("Rejim, son pencerenin geçiş sıklığı ve dengesizliğine göre çevrimiçi kümelemeyle belirlenir; rejim bazlı doğruluk yalnızca gerçek sonuçlardan hesaplanır.", Modifier.padding(top = 4.dp))
    }
    FCard("Rejim geçişleri") {
        val n = ins.regime.rows.size
        TableRow(listOf("") + rg.rows.map { it.name.takeLast(1) }, listOf(40) + List(n) { 0 }, header = true)
        for (i in 0 until n) {
            val rs = (0 until n).sumOf { rg.transitions[i * n + it] }.coerceAtLeast(1.0)
            TableRow(listOf(rg.rows[i].name.takeLast(1)) + (0 until n).map { pct(rg.transitions[i * n + it] / rs) }, listOf(40) + List(n) { 0 })
        }
    }
    FCard("Son rejim değişimleri") {
        if (rg.history.isEmpty()) Muted("Henüz değişim yok")
        rg.history.takeLast(8).reversed().forEach { h -> Mono("${fan.superai.v13.V13.REGIME_NAMES[h[0]]}  #${h[1]}'den ${h[2]} adım", size = 11) }
    }
}

// ========================================================================================== Counterfactual
@Composable
private fun CounterfactualTab(fin: FinalPrediction?) {
    val out by EngineHost.v13Research.collectAsState()
    var res by remember { mutableStateOf<List<CfResult>>(emptyList()) }
    LaunchedEffect(fin?.predictionLockId) {
        res = withContext(Dispatchers.IO) { EngineHost.liveCounterfactual() }
    }
    FCard("Karşı-olgusal · mevcut kilitli tahmin") {
        Muted("Simülasyon: kilitli tahminin girdileri farklı ağırlıklarla yeniden birleştirilir. Gerçek state DEĞİŞMEZ.")
        TableRow(listOf("Senaryo", "rakam", "yan"), listOf(0, 48, 100), header = true)
        res.forEach { r ->
            TableRow(listOf(r.scenario.take(30), "${r.number}${if (r.numberChanged) "*" else ""}", "${r.side.display.replace(" + ", "+")}${if (r.sideChanged) "*" else ""}"),
                listOf(0, 48, 100), color = if (r.numberChanged || r.sideChanged) C.orange else C.text)
        }
```

[Dosya #65/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/FanLabScreen.kt (Satır 404 ve sonrası)

```
404         if (res.isEmpty()) Muted("Kilitli tahmin yok")
405         Muted("* normal ensemble'dan farklı", Modifier.padding(top = 4.dp))
406     }
407     out?.let { o ->
408         FCard("Replay boyunca senaryo doğruluğu") {
409             TableRow(listOf("Senaryo", "n", "rakam", "yan(2)"), listOf(0, 40, 56, 56), header = true)
410             o.counterfactual.forEach { c -> TableRow(listOf(c.scenario, "${c.n}", pct(c.numberAcc), pct(c.sideAcc)), listOf(0, 40, 56, 56)) }
411             Muted("Python/Kotlin katkısı: 'yok' senaryolarının normalden farkı. Katkı payları her tahminin açıklamasında listelenir.", Modifier.padding(top = 4.dp))
412         }
413         o.lastCounterfactual.takeIf { it.isNotEmpty() }?.let {
414             FCard("Replay son adım senaryoları") {
415                 it.forEach { r -> KV(r.scenario.take(32), "${r.number} · ${r.side.display.replace(" + ", "+")}") }
416             }
417         }
418     }
419 }
```

[Dosya #66/84] Proje Yolu: app/src/main/java/fan/superai/ui/SettingsScreen.kt BÖLÜM 8 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 14.463 B (14.1 KB) | Satır: 241 satır SHA-256: 44bf6eeadc7e5700726cc400dcaf1fb5…

```
1  package fan.superai.ui
2
3  import android.widget.Toast
4  import androidx.activity.compose.rememberLauncherForActivityResult
5  import androidx.activity.result.contract.ActivityResultContracts
6  import androidx.compose.foundation.background
7  import androidx.compose.foundation.clickable
8  import androidx.compose.foundation.layout.Box
9  import androidx.compose.foundation.layout.Column
10 import androidx.compose.foundation.layout.Row
11 import androidx.compose.foundation.layout.fillMaxSize
12 import androidx.compose.foundation.layout.fillMaxWidth
13 import androidx.compose.foundation.layout.height
14 import androidx.compose.foundation.layout.padding
15 import androidx.compose.foundation.rememberScrollState
16 import androidx.compose.foundation.shape.RoundedCornerShape
17 import androidx.compose.foundation.verticalScroll
18 import androidx.compose.material3.AlertDialog
19 import androidx.compose.material3.Checkbox
20 import androidx.compose.material3.DropdownMenu
21 import androidx.compose.material3.DropdownMenuItem
22 import androidx.compose.material3.Switch
23 import androidx.compose.material3.SwitchDefaults
24 import androidx.compose.material3.Text
25 import androidx.compose.material3.TextButton
26 import androidx.compose.runtime.Composable
27 import androidx.compose.runtime.LaunchedEffect
28 import androidx.compose.runtime.collectAsState
29 import androidx.compose.runtime.getValue
30 import androidx.compose.runtime.mutableIntStateOf
31 import androidx.compose.runtime.mutableStateOf
32 import androidx.compose.runtime.remember
33 import androidx.compose.runtime.setValue
34 import androidx.compose.ui.Alignment
35 import androidx.compose.ui.Modifier
36 import androidx.compose.ui.draw.clip
37 import androidx.compose.ui.graphics.Color
38 import androidx.compose.ui.platform.LocalContext
39 import androidx.compose.ui.unit.dp
40 import androidx.compose.ui.unit.sp
41 import fan.superai.EngineHost
42 import fan.superai.data.AppSettings
43 import fan.superai.data.DataStore
44 import fan.superai.data.Settings
45 import fan.superai.engine.FanEngine
46 import kotlinx.coroutines.flow.drop
47
48 private val KOTLIN_NAMES = mapOf("kalip2" to "Kalıp Arama 2.0", "ctw" to "CTW", "ppm" to "PPM", "freqgap" to "Frekans / Aralık",
49     "streak" to "Seri / Dalga", "regime" to "Rejim", "gru" to "GRU", "esn" to "ESN")
50 private val PYTHON_NAMES = mapOf("lstm" to "LSTM", "transformer" to "Transformer", "cnn" to "1D-CNN", "kalip_fuzzy" to "Kalıp 2.0 bulanık",
51     "knn_dtw" to "kNN-DTW", "spectral" to "Spektral/BOCPD", "gboost" to "Gradient Boost", "context" to "Bağlam modeli",
52     "motif" to "Motif keşfi", "hmm" to "HMM")
53
54 @Composable
55 private fun SetRow(title: String, sub: String? = null, onClick: (() -> Unit)? = null, titleColor: Color = C.text, trailing: @Composable () -> Unit) {
56     Row(Modifier.fillMaxWidth().then(if (onClick != null) Modifier.clickable { onClick() } else Modifier).padding(vertical = 9.dp),
57         verticalAlignment = Alignment.CenterVertically) {
58         Column(Modifier.weight(1f)) {
```

[Dosya #66/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/SettingsScreen.kt (Satır 59 ve sonrası)

```
            Text(title, color = titleColor, fontSize = 13.sp)
            if (sub != null) Text(sub, color = C.dim, fontSize = 11.sp)
        }
        trailing()
    }
    Box(Modifier.fillMaxWidth().height(1.dp).background(C.line))
}

@Composable
private fun Toggle(title: String, sub: String? = null, value: Boolean, onChange: (Boolean) -> Unit) =
    SetRow(title, sub, onClick = { onChange(!value) }) {
        Switch(checked = value, onCheckedChange = onChange, colors = SwitchDefaults.colors(checkedTrackColor = C.blue))
    }

/**
 * Seçenek eşleştirme toleransı: yüzdelik ayarlar Float olarak saklandığında 0.18 değeri
 * 0.18000000715255737'ye döner ve birebir eşleşme tutmaz; o zaman Ayarlar ham float değerini
 * gösteriyordu ("yüzdelik seçimi çalışmıyor ve floata düşüyor"). Sayısal karşılaştırma
 * toleranslı yapılır.
 */
private fun choiceEquals(a: Any?, b: Any?): Boolean = when {
    a is Number && b is Number -> kotlin.math.abs(a.toDouble() - b.toDouble()) < 1e-6
    else -> a == b
}

@Composable
private fun <T> Choice(title: String, sub: String? = null, value: T, options: List<Pair<T, String>>, onChange: (T) -> Unit) {
    var open by remember { mutableStateOf(false) }
    SetRow(title, sub, onClick = { open = true }) {
        Box {
            Text((options.firstOrNull { choiceEquals(it.first, value) }?.second ?: value.toString()) + " ▾", color = Color(0xFFCFE0F5), fontSize = 12.sp,
                modifier = Modifier.clip(RoundedCornerShape(7.dp)).background(C.border).padding(horizontal = 9.dp, vertical = 4.dp))
            DropdownMenu(expanded = open, onDismissRequest = { open = false }) {
                options.forEach { (v, l) -> DropdownMenuItem(text = { Text(l) }, onClick = { onChange(v); open = false }) }
            }
        }
    }
}

@Composable
private fun Action(title: String, sub: String? = null, color: Color = C.text, onClick: () -> Unit) =
    SetRow(title, sub, onClick = onClick, titleColor = color) { Text("›", color = C.muted, fontSize = 18.sp) }

@Composable
fun SettingsScreen() {
    val ctx = LocalContext.current
    val s by Settings.flow.collectAsState()
    val st by EngineHost.state.collectAsState()
    val busy by EngineHost.busy.collectAsState()
    fun set(f: (AppSettings) -> AppSettings) = Settings.update(f)

    // Ayar değişikliklerini motora uygula
    LaunchedEffect(Unit) { Settings.flow.drop(1).collect { EngineHost.applySettings(it) } }

    var membersDialog by remember { mutableStateOf(false) }
    var confirm by remember { mutableStateOf<Pair<String, () -> Unit>?>(null) }
    var deleteStep by remember { mutableIntStateOf(0) }
    var pendingImport by remember { mutableStateOf<List<fan.superai.data.Rec>?>(null) }
    var showLogs by remember { mutableStateOf(false) }
    if (showLogs) { LogScreen(onBack = { showLogs = false }); return }

    val exportLauncher = rememberLauncherForActivityResult(ActivityResultContracts.CreateDocument("text/csv")) { uri ->
        if (uri != null) {
            try { DataStore.exportTo(ctx, uri, EngineHost.records()); Toast.makeText(ctx, "Dışa aktarıldı", Toast.LENGTH_SHORT).show() }
            catch (e: Exception) { Toast.makeText(ctx, "Hata: ${e.message}", Toast.LENGTH_LONG).show() }
        }
    }
    val importLauncher = rememberLauncherForActivityResult(ActivityResultContracts.OpenDocument()) { uri ->
        if (uri != null) {
            val recs = try { DataStore.parse(DataStore.readUri(ctx, uri)) } catch (e: Exception) { emptyList() }
            if (recs.isEmpty()) Toast.makeText(ctx, "Dosyada geçerli kayıt bulunamadı", Toast.LENGTH_LONG).show()
            else pendingImport = recs
        }
    }

    Column(Modifier.fillMaxSize().verticalScroll(rememberScrollState()).padding(12.dp)) {
        BusyBanner(busy)
        FCard("🎯 Tahmin") {
            Choice("Çift tahmin kararı", "Konformal: gerektiğinde 2 rakam", s.pairMode,
                listOf(0 to "Otomatik", 1 to "Her zaman çift", 2 to "Her zaman tek")) { v -> set { it.copy(pairMode = v) } }
            Choice("İlk sessiz tur", "Başarı hesabına katılmayan öğrenme başlangıcı", s.silentFirst,
                listOf(0 to "0", 20 to "20", 50 to "50", 100 to "100")) { v -> set { it.copy(silentFirst = v) } }
```

[Dosya #66/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/SettingsScreen.kt (Satır 141 ve sonrası)

```
141             Toggle("Güven kalibrasyonu", "Yazan yüzde ≈ gerçek başarı", s.calibration) { v -> set { it.copy(calibration = v) } }
142         }
143         FCard("🏛 Meclis & Yarış") {
144             Choice("Değerlendirme penceresi", null, s.window, listOf(50 to "50", 100 to "100", 200 to "200")) { v -> set { it.copy(window = v) } }
145             Choice("Yedeğe düşme eşiği", "Tek başarısı bunun altına inen üye oy vermez", s.benchThreshold,
146                 listOf(0.0 to "Kapalı", 0.18 to "%18", 0.20 to "%20", 0.22 to "%22", 0.24 to "%24")) { v -> set { it.copy(benchThreshold = v) } }
147             Choice("Ağırlık yöntemi", null, s.fixedShare, listOf(true to "Fixed-Share", false to "Hedge")) { v -> set { it.copy(fixedShare = v) } }
148             Choice("Hakem birleştirme", "Stacking / ağırlıklı ortalama", s.stacking, listOf(true to "Stacking", false to "Ağırlıklı")) { v -> set { it.copy(stacking = v) } }
149             Choice("Eski veriyi unutma hızı", "Kalıp değişimine uyum hızı", s.forgetting, listOf(0 to "Yavaş", 1 to "Orta", 2 to "Hızlı")) { v -> set { it.copy(forgetting = v) } }
150             val total = KOTLIN_NAMES.size + PYTHON_NAMES.size
151             SetRow("Üyeleri aç/kapat", onClick = { membersDialog = true }) {
152                 Text("${total - s.disabled.size} aktif ›", color = Color(0xFFCFE0F5), fontSize = 12.sp)
153             }
154         }
155         FCard("🐍 Python motoru") {
156             Toggle("Python meclisi", "Uygulamaya gömülü (Chaquopy)", s.pythonEnabled) { v -> set { it.copy(pythonEnabled = v) } }
157             Toggle("Derin öğrenme modelleri", "LSTM · Transformer · 1D-CNN", s.dlEnabled) { v -> set { it.copy(dlEnabled = v) } }
158             Toggle("Pil tasarrufu", "Ağır modelleri 5 turda bir eğit", s.battery) { v -> set { it.copy(battery = v) } }
159         }
160         FCard("🪟 Overlay") {
161             Choice("Yerleşim", null, s.overlayHorizontal, listOf(false to "Dikey", true to "Yatay")) { v -> set { it.copy(overlayHorizontal = v) } }
162             Choice("Saydamlık", null, s.overlayAlpha, listOf(0.6f to "%60", 0.7f to "%70", 0.8f to "%80", 0.9f to "%90", 1.0f to "%100")) { v -> set { it.copy(overlayAlpha = v) } }
163             Choice("Yazı boyutu", null, s.overlayTextScale, listOf(0.85f to "Küçük", 1.0f to "Normal", 1.2f to "Büyük")) { v -> set { it.copy(overlayTextScale = v) } }
164             Toggle("Son sayı dizisini göster", null, s.showRecent) { v -> set { it.copy(showRecent = v) } }
165             Toggle("Titreşimli buton", null, s.vibrate) { v -> set { it.copy(vibrate = v) } }
166         }
167         FCard("🔍 Keşif") {
168             Choice("Testleri otomatik çalıştır", null, s.discoveryEvery, listOf(0 to "Kapalı", 25 to "25 turda bir", 50 to "50 turda bir", 100 to "100 turda bir")) { v -> set { it.copy(discoveryEvery = v) } }
169             Action("Testleri şimdi çalıştır") { EngineHost.rerunDiscovery(); Toast.makeText(ctx, "Keşif testleri çalışıyor", Toast.LENGTH_SHORT).show() }
170         }
171         FCard("💾 Veri") {
172             Action("📋 İşlem logları", "Her EKLE/GERİ AL + o andaki üye model tahminleri") { showLogs = true }
173             Action("📥 CSV içe aktar", "Eski FAN verisi (fan_data_live.csv) veya satır başına bir sayı") { importLauncher.launch(arrayOf("*/*")) }
174             Action("📤 CSV dışa aktar") { exportLauncher.launch("fan_super_data.csv") }
175             Toggle("Download/FAN yedekle", "10 kayıtta bir otomatik", s.backupDownload) { v -> set { it.copy(backupDownload = v) } }
176             Action("🧹 Öğrenmeyi sıfırla", "Veri kalır, modeller baştan öğrenir", C.orange) {
177                 confirm = "Tüm modeller baştan öğrenecek. Devam edilsin mi?" to { EngineHost.resetLearning() }
178             }
179             Action("🗑 Tüm veriyi sil", "Çift onay", C.danger) { deleteStep = 1 }
180         }
181         FCard("ℹ Hakkında") {
182             KV("Uygulama", "FAN SUPER")
183             KV("Paket", "fan.superai")
184             KV("Sürüm", fan.superai.BuildConfig.VERSION_NAME)
185             KV("Üyeler", "🛢 ${KOTLIN_NAMES.size} · 🐍 ${PYTHON_NAMES.size}")
186             KV("Kayıt", "${st?.count ?: 0}")
187             Muted("Başarı her zaman şans çizgisiyle (tek %25, çift %50) karşılaştırılır. Hiçbir yöntem rastgele bir veride şansı kalıcı olarak geçemez.",
188                 Modifier.padding(top = 6.dp))
189         }
190     }
191
192     if (membersDialog) {
193         AlertDialog(onDismissRequest = { membersDialog = false }, containerColor = C.card,
194             confirmButton = { TextButton(onClick = { membersDialog = false }) { Text("Tamam") } },
195             title = { Text("Üyeleri aç/kapat") },
196             text = {
197                 Column(Modifier.verticalScroll(rememberScrollState())) {
198                     Text("🛢 Kotlin", color = C.head, fontSize = 12.sp)
199                     KOTLIN_NAMES.forEach { (id, name) ->
200                         MemberCheck(name, id !in s.disabled) { on -> set { it.copy(disabled = if (on) it.disabled - id else it.disabled + id) } }
201                     }
202                     Text("🐍 Python", color = C.head, fontSize = 12.sp, modifier = Modifier.padding(top = 8.dp))
203                     PYTHON_NAMES.forEach { (id, name) ->
204                         MemberCheck(name, id !in s.disabled) { on -> set { it.copy(disabled = if (on) it.disabled - id else it.disabled + id) } }
205                     }
206                 }
207             })
208     }
```

[Dosya #66/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/SettingsScreen.kt (Satır 209 ve sonrası)

```
209     confirm?.let { (msg, act) ->
210         AlertDialog(onDismissRequest = { confirm = null }, containerColor = C.card, text = { Text(msg) },
211             confirmButton = { TextButton(onClick = { act(); confirm = null }) { Text("Evet") } },
212             dismissButton = { TextButton(onClick = { confirm = null }) { Text("Vazgeç") } })
213     }
214     if (deleteStep > 0) {
215         AlertDialog(onDismissRequest = { deleteStep = 0 }, containerColor = C.card,
216             text = { Text(if (deleteStep == 1) "Tüm kayıtlar silinecek. Emin misiniz?" else "GERİ ALINAMAZ. Son kez onaylıyor mu
    ↳ sunuz?") },
217             confirmButton = {
218                 TextButton(onClick = {
219                     if (deleteStep == 1) deleteStep = 2 else { EngineHost.deleteAll(); deleteStep = 0 }
220                 }) { Text(if (deleteStep == 1) "Evet" else "SİL", color = C.danger) }
221             },
222             dismissButton = { TextButton(onClick = { deleteStep = 0 }) { Text("Vazgeç") } })
223     }
224     pendingImport?.let { recs ->
225         AlertDialog(onDismissRequest = { pendingImport = null }, containerColor = C.card,
226             text = { Text("${recs.size} kayıt bulundu. Mevcut veri bu dosyayla değiştirilsin mi?") },
227             confirmButton = { TextButton(onClick = { EngineHost.replaceData(recs); pendingImport = null }) { Text("Değiştir") }
    ↳ },
228             dismissButton = { TextButton(onClick = { pendingImport = null }) { Text("Vazgeç") } })
229     }
230 }
231
232 @Composable
233 private fun MemberCheck(name: String, on: Boolean, onChange: (Boolean) -> Unit) {
234     Row(Modifier.fillMaxWidth().clickable { onChange(!on) }, verticalAlignment = Alignment.CenterVertically) {
235         Checkbox(checked = on, onCheckedChange = onChange)
236         Text(name, color = C.text, fontSize = 13.sp)
237     }
238 }
239
240 @Suppress("unused")
241 private val keepIds = FanEngine.KOTLIN_IDS
```

[Dosya #67/84] Proje Yolu: app/src/main/java/fan/superai/ui/LogScreen.kt BÖLÜM 8 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 4.806 B (4.7 KB) | Satır: 108 satır SHA-256: c5c95d533509ae2a801a0866faceecd8…

```
1  package fan.superai.ui
2
3  import androidx.compose.foundation.background
4  import androidx.compose.foundation.clickable
5  import androidx.compose.foundation.layout.Box
6  import androidx.compose.foundation.layout.Column
7  import androidx.compose.foundation.layout.PaddingValues
8  import androidx.compose.foundation.layout.Row
9  import androidx.compose.foundation.layout.fillMaxSize
10 import androidx.compose.foundation.layout.fillMaxWidth
11 import androidx.compose.foundation.layout.height
12 import androidx.compose.foundation.layout.padding
13 import androidx.compose.foundation.lazy.LazyColumn
14 import androidx.compose.foundation.lazy.items
15 import androidx.compose.material3.Text
16 import androidx.compose.material3.TextButton
17 import androidx.compose.runtime.Composable
18 import androidx.compose.runtime.collectAsState
19 import androidx.compose.runtime.getValue
20 import androidx.compose.runtime.mutableStateOf
21 import androidx.compose.runtime.remember
22 import androidx.compose.runtime.setValue
23 import androidx.compose.ui.Alignment
24 import androidx.compose.ui.Modifier
25 import androidx.compose.ui.unit.dp
26 import androidx.compose.ui.unit.sp
27 import fan.superai.ActivityLogEntry
28 import fan.superai.EngineHost
29 import fan.superai.engine.MemberStat
30 import java.text.SimpleDateFormat
31 import java.util.Date
32 import java.util.Locale
33
34 private val timeFmt = SimpleDateFormat("HH:mm:ss", Locale.getDefault())
35
36 /**
37  * "Ayarlar › Loglar" ile açılır. Her EKLE/GERİ AL işlemini, o anki hakem kararını
38  * ve tıklanınca da o adımda HER ÜYE MODELİN (🟣 Kotlin + 🐍 Python) ürettiği
39  * tahmin/ağırlığı gösterir. Ekstra hesap yapmaz — motor bu veriyi zaten her
40  * adımda üretiyor, burada sadece geçmişi saklanmış hâli listeleniyor.
41  */
42 @Composable
43 fun LogScreen(onBack: () -> Unit) {
44     val log by EngineHost.activityLog.collectAsState()
```

[Dosya #67/84 — Devam] Proje Yolu: app/src/main/java/fan/superai/ui/LogScreen.kt (Satır 45 ve sonrası)

```
45
46      Column(Modifier.fillMaxSize().background(C.bg)) {
47          Row(Modifier.fillMaxWidth().padding(12.dp), verticalAlignment = Alignment.CenterVertically) {
48              TextButton(onClick = onBack) { Text("‹ Geri", color = C.lightBlue) }
49              Text("İşlem Logları (${log.size})", color = C.text, fontSize = 15.sp, modifier = Modifier.padding(start = 4.dp))
50              Box(Modifier.fillMaxWidth().padding(start = 8.dp)) {
51                  TextButton(onClick = { EngineHost.clearActivityLog() }) { Text("Temizle", color = C.danger) }
52              }
53          }
54          Box(Modifier.fillMaxWidth().height(1.dp).background(C.line))
55          if (log.isEmpty()) {
56              Muted("Henüz kayıt yok. Sayı girdikçe veya geri aldıkça burada birikecek.", Modifier.padding(16.dp))
57          } else {
58              LazyColumn(Modifier.fillMaxSize(), contentPadding = PaddingValues(12.dp)) {
59                  items(log.asReversed()) { entry -> LogRow(entry) }
60              }
61          }
62      }
63  }
64
65  @Composable
66  private fun LogRow(e: ActivityLogEntry) {
67      var open by remember { mutableStateOf(false) }
68      Column(Modifier.fillMaxWidth().padding(vertical = 4.dp)) {
69          Row(
70              Modifier.fillMaxWidth().clickable { open = !open }
71                  .background(C.card).padding(10.dp),
72              verticalAlignment = Alignment.CenterVertically
73          ) {
74              Column(Modifier.fillMaxWidth()) {
75                  Row(Modifier.fillMaxWidth(), horizontalArrangement = androidx.compose.foundation.layout.Arrangement.SpaceBetween
↳ ) {
76                      Text(timeFmt.format(Date(e.time)), color = C.dim, fontSize = 11.sp)
77                      Text(e.action, color = C.lightBlue, fontSize = 12.sp)
78                  }
79                  Text(
80                      "Karar: ${e.verdictLabel ?: "--"}" + (e.confidencePct?.let { "  ·  güven %$it" } ?: ""),
81                      color = C.text, fontSize = 13.sp
82                  )
83                  Text(if (open) "▲ üye modelleri gizle" else "▼ üye modellerini göster", color = C.muted, fontSize = 10.sp)
84              }
85          }
86          if (open) {
87              Column(Modifier.fillMaxWidth().background(C.card).padding(horizontal = 10.dp, vertical = 6.dp)) {
88                  Text("🛢 Kotlin Meclisi", color = C.head, fontSize = 11.sp)
89                  e.kotlinStats.forEach { MemberStatRow(it) }
90                  Text("🐍 Python Meclisi", color = C.head, fontSize = 11.sp, modifier = Modifier.padding(top = 6.dp))
91                  if (e.pythonStats.isEmpty()) Muted("kapalı / veri yok") else e.pythonStats.forEach { MemberStatRow(it) }
92              }
93          }
94      }
95  }
96
97  @Composable
98  private fun MemberStatRow(m: MemberStat) {
99      val status = when {
100         !m.enabled -> "kapalı"
101         m.benched -> "yedekte"
102         else -> "aktif"
103     }
104     Text(
105         "  ${m.name}: top1 %${(m.top1 * 100).toInt()} · top2 %${(m.top2 * 100).toInt()} · ağırlık %${(m.weight * 100).toInt()} ·
↳ $status",
106         color = C.text, fontSize = 11.sp
107     )
108 }
```

BÖLÜM 9: Python Meclisi Kaynak Kodları (Chaquopy Gömülü Python 3.11)

3 Dosya · 1.717 Satır · 54.7 KB

10 üyeli Python Rakam Meclisi (LSTM, Mini Transformer, 1D-CNN, Kalıp 2.0 Bulanık, kNN-DTW, Spektral, BOCPD, Gradient Boosting, Bağlam/Motif, HMM), O(1) checkpoint tabanlı geri alma (fan_super.py) ve Python Yan Meclisi (fan_side.py).

[Dosya #68/84] Proje Yolu: app/src/main/python/fan_super.py

BÖLÜM 9 · Python

Kök: /home/user/FanSuper-FANLAB | Boyut: 21.258 B (20.8 KB) | Satır: 640 satır SHA-256: ac7772e36a1f38bcba1f7c84c9e15f72…

```python
# -*- coding: utf-8 -*-
"""
FAN SUPER — Python Meclisi (Chaquopy ile uygulamaya gömülü).
Kotlin tarafı yalnızca bu modüldeki fonksiyonları çağırır; tüm giriş/çıkış JSON metnidir.

HIZLI GERİ ALMA
---------------
Eski sürüm her adımda meclisin TAM derin kopyasını (copy.deepcopy) alıyordu:
bu hem sayı düğmelerini yavaşlatıyor hem de yalnızca 8 adım geriye izin veriyordu
(9. geri almada tüm geçmiş baştan öğreniliyordu → dakikalarca bekleme).

Yeni düzen:
  * Üyeler artık paylaşılan dizileri yerinde değiştirmez, bu yüzden "anlık görüntü"
    yalnızca referans + birkaç küçük kopya tutar (~60 µs, deepcopy'nin ~1/1000'i).
  * Her adımın görüntüsü `_journal` halkasına, her CK_EVERY adımda bir de
    `_checkpoints` (dayanak) listesine yazılır.
  * `undo_to(n)`: hedef günlükte varsa O(1); değilse en yakın dayanağa dönülüp
    en çok CK_EVERY adım ileri sarılır. Tam yeniden öğrenme yalnızca dayanak
    kapsamının dışına çıkılırsa gerekir (Kotlin tarafı bunu yapar).
"""
import json
import math
import time
from collections import deque

import numpy as np

import fan_members as fm
import fan_side as fsd

K = 4

JOURNAL = 32      # adım adım geri alma halkası (canlı girişler için anında undo)
CK_EVERY = 8      # kaç adımda bir dayanak (checkpoint) alınır
CK_MAX = 96       # tutulacak dayanak sayısı (CK_EVERY * CK_MAX kayıt geriye kadar)
ANCHORS = 4       # diske yazılan dayanak sayısı (açılıştan sonra da hızlı undo)


class Rolling:
    def __init__(self, cap):
        self.cap = cap
        self.buf = deque(maxlen=cap)

    def add(self, b):
        self.buf.append(1 if b else 0)

    @property
    def n(self):
        return len(self.buf)

    def rate(self):
        return (sum(self.buf) / len(self.buf)) if self.buf else 0.0

    # ---- geri alma: 100 baytlık kopya, O(cap) ----
    def snap(self):
        return bytes(self.buf)

    def restore(self, b):
        self.buf = deque(bytearray(b), maxlen=self.cap)


class PyCouncil:
    def __init__(self, cfg):
        self.cfg = cfg
        self.members = fm.all_members()
        n = len(self.members)
        self.w = np.full(n, 1.0 / n)
        win = int(cfg.get("window", 100))
        self.r1 = [Rolling(win) for _ in range(n)]
        self.r2 = [Rolling(win) for _ in range(n)]
        self.bench = [False] * n
        self.vals = []
        self.times = []
        self.last_preds = None
        self.last_mix = np.full(K, 0.25)
        self.step_no = 0
```

[Dosya #68/84 — Devam] Proje Yolu: app/src/main/python/fan_super.py (Satır 77 ve sonrası)

```
        self.last_ms = 0.0
        self.per = []  # her kayıt için, o kayıt gelmeden önceki meclis tahmini
        self._apply_cfg()

    def _apply_cfg(self):
        dl = bool(self.cfg.get("dl", True))
        battery = bool(self.cfg.get("battery", False))
        for m in self.members:
            if hasattr(m, "slow"):
                m.slow = 2 if battery else 1
        self.dl = dl
        self.battery = battery

    def enabled(self, i):
        m = self.members[i]
        if m.id in self.cfg.get("disabled", []):
            return False
        if getattr(m, "dl", False) and not self.dl:
            return False
        return True

    def _hist(self):
        return fm.Hist(np.asarray(self.vals, dtype=np.int64), np.asarray(self.times, dtype=np.int64), len(self.vals))

    def predict(self):
        h = self._hist()
        preds = []
        for i, m in enumerate(self.members):
            if not self.enabled(i):
                preds.append(np.full(K, 0.25))
                continue
            try:
                preds.append(fm.norm(m.predict(h)))
            except Exception:
                preds.append(np.full(K, 0.25))
        self.last_preds = preds
        act = [self.enabled(i) and not self.bench[i] for i in range(len(self.members))]
        if not any(act):
            act = [self.enabled(i) for i in range(len(self.members))]
        mix = np.zeros(K)
        tw = 0.0
        for i, p in enumerate(preds):
            if act[i]:
                mix += self.w[i] * p
                tw += self.w[i]
        self.last_mix = fm.norm(mix / tw) if tw > 0 else np.full(K, 0.25)
        return self.last_mix

    def learn(self, v, t):
        """Gerçek sonucu öğren (predict() önce çağrılmış olmalı)."""
        t0 = time.time()
        preds = self.last_preds
        self.per.append([float(x) for x in self.last_mix])
        self.vals.append(int(v))
        self.times.append(int(t))
        self.step_no += 1
        win = int(self.cfg.get("window", 100))
        thr = float(self.cfg.get("bench", 0.20))
        alpha = float(self.cfg.get("alpha", 0.02))
        if preds is not None:
            nm = len(self.members)
            factor = np.ones(nm)
            bench = list(self.bench)          # yeni liste: eski görüntüler bozulmaz
            for i, p in enumerate(preds):
                o = np.argsort(-p)
                self.r1[i].add(o[0] == v)
                self.r2[i].add(o[0] == v or o[1] == v)
                bench[i] = bool(self.r1[i].n >= win and self.r1[i].rate() < thr)
                factor[i] = math.exp(0.6 * math.log(max(float(p[v]), 1e-9)))
            self.bench = bench
            w = self.w * factor               # yerinde değil: yeni dizi
            s = w.sum()
            if not np.isfinite(s) or s <= 0:
                w = np.full(nm, 1.0 / nm)
            else:
                w = w / s
            self.w = (1 - alpha) * w + alpha / nm
        h = self._hist()
        heavy_ok = (not self.battery) or (self.step_no % 5 == 0)
        for i, m in enumerate(self.members):
            if not self.enabled(i):
                continue
            if getattr(m, "dl", False):
                m.train = heavy_ok
            try:
```

[Dosya #68/84 — Devam] Proje Yolu: app/src/main/python/fan_super.py (Satır 162 ve sonrası)

```
                m.update(h)
            except Exception:
                pass
        self.last_ms = (time.time() - t0) * 1000.0

    def capture(self):
        """Şu anki durumun UCUZ anlık görüntüsü (büyük tablolar kopyalanmaz)."""
        return {
            "c": self,
            "n": len(self.vals),
            "w": self.w,
            "bench": list(self.bench),
            "rolls": [(a.snap(), b.snap()) for a, b in zip(self.r1, self.r2)],
            "mix": self.last_mix,
            "preds": self.last_preds,
            "step_no": self.step_no,
            "mem": [m.snap() if hasattr(m, "snap") else dict(m.__dict__) for m in self.members],
        }

    def stats(self):
        out = []
        n = len(self.members)
        for i, m in enumerate(self.members):
            out.append({
                "id": m.id, "name": m.name,
                "top1": self.r1[i].rate(), "top2": self.r2[i].rate(),
                "weight": float(self.w[i] * n), "benched": bool(self.bench[i]),
                "enabled": bool(self.enabled(i)), "n": self.r1[i].n,
            })
        return out


# ------------------------------------------------------------------ modül durumu
_council = None
_cfg = {}
_journal = deque(maxlen=JOURNAL)        # her adımın görüntüsü (n = o adımdan ÖNCEKİ kayıt sayısı)
_checkpoints = deque(maxlen=CK_MAX)     # seyrek dayanaklar


def _lst(p):
    return [float(x) for x in p]


def can_restore(s):
    c = s.get("c") if isinstance(s, dict) else None
    if c is None:
        return False
    try:
        for m, ms in zip(c.members, s["mem"]):
            if hasattr(m, "can_restore") and not m.can_restore(ms):
                return False
    except Exception:
        return False
    return True


def _restore(s):
    """capture() görüntüsüne geri dön. Başarı: True."""
    c = s.get("c")
    if c is None:
        return False
    global _council
    try:
        n = int(s["n"])
        del c.vals[n:]
        del c.times[n:]
        del c.per[n:]
        c.w = s["w"]
        c.bench = list(s["bench"])
        for i, (b1, b2) in enumerate(s["rolls"]):
            c.r1[i].restore(b1)
            c.r2[i].restore(b2)
        c.last_mix = s["mix"]
        c.last_preds = s["preds"]
        c.step_no = s["step_no"]
        for m, ms in zip(c.members, s["mem"]):
            if hasattr(m, "restore"):
                if not m.restore(ms):
                    return False
            else:
                m.__dict__.clear()
                m.__dict__.update(ms)
        _council = c
        return True
    except Exception:
```

[Dosya #68/84 — Devam] Proje Yolu: app/src/main/python/fan_super.py (Satır 247 ve sonrası)

```
247         return False
248
249
250 def _log_snap(s):
251     _journal.append(s)
252     if s["n"] % CK_EVERY == 0:
253         _checkpoints.append(s)
254
255
256 def _prune(n):
257     """Hedeften daha yeni görüntüleri at."""
258     while _journal and _journal[-1]["n"] > n:
259         _journal.pop()
260     while _checkpoints and _checkpoints[-1]["n"] > n:
261         _checkpoints.pop()
262
263
264 def configure(cfg_json):
265     global _cfg
266     _cfg = json.loads(cfg_json) if cfg_json else {}
267     return "ok"
268
269
270 def _r6(a):
271     return [round(float(x), 6) for x in a]
272
273
274 def _run_replay(c, vals, times, journal, with_members):
275     """Ortak replay döngüsü: her adımda önce tahmin, sonra gerçek sonuç (gelecek sızmaz)."""
276     members = []
277     for v, t in zip(vals, times):
278         c.predict()
279         if with_members:
280             members.append([_r6(p) for p in c.last_preds])
281         if journal:
282             _log_snap(c.capture())
283         c.learn(int(v), int(t))
284     nxt = c.predict()
285     return nxt, members
286
287
288 def replay(values_json, times_json, with_members=False):
289     """Tüm geçmişi baştan öğren. Dönüş: {"per": [...], "next": [...]}
290     with_members=True ise her adım için üye bazında dağılımlar da döner (v1.3 meta-ensemble)."""
291     global _council
292     vals = json.loads(values_json)
293     times = json.loads(times_json)
294     _council = PyCouncil(_cfg)
295     _journal.clear()
296     _checkpoints.clear()
297     c = _council
298     t0 = time.time()
299     nxt, members = _run_replay(c, vals, times, True, bool(with_members))
300     c.last_ms = (time.time() - t0) * 1000.0 / max(1, len(vals))
301     out = {"per": c.per, "next": _lst(nxt)}
302     if with_members:
303         out["ids"] = [m.id for m in c.members]
304         out["members"] = members
305     return json.dumps(out)
306
307
308 def sandbox_replay(values_json, times_json, cfg_json=None):
309     """ARAŞTIRMA modu: canlı Python meclisine ve günlüklerine DOKUNMAZ.
310     Yeni bir meclis kurar, tüm geçmişi kronolojik oynatır ve üye dağılımlarını döndürür."""
311     vals = json.loads(values_json)
312     times = json.loads(times_json)
313     cfg = json.loads(cfg_json) if cfg_json else dict(_cfg)
314     c = PyCouncil(cfg)
315     nxt, members = _run_replay(c, vals, times, False, True)
316     return json.dumps({"per": c.per, "next": _lst(nxt), "ids": [m.id for m in c.members],
317                        "members": members})
318
319
320 def member_info():
321     """Canlı meclisin SON tahmin edilen (bir sonraki) üye dağılımları ve ağırlık payları."""
322     if _council is None or _council.last_preds is None:
323         return "{}"
324     c = _council
325     act = [c.enabled(i) and not c.bench[i] for i in range(len(c.members))]
326     if not any(act):
327         act = [c.enabled(i) for i in range(len(c.members))]
328     wsum = sum(float(c.w[i]) for i in range(len(c.members)) if act[i]) or 1.0
329     return json.dumps({
330         "ids": [m.id for m in c.members],
331         "names": [m.name for m in c.members],
```

[Dosya #68/84 — Devam] Proje Yolu: app/src/main/python/fan_super.py (Satır 332 ve sonrası)

```
        "preds": [_r6(p) for p in c.last_preds],
        "share": [float(c.w[i]) / wsum if act[i] else 0.0 for i in range(len(c.members))],
        "active": [bool(a) for a in act],
    })


def _step_core(v, t):
    """step()'in ortak mantığı: bir sonraki tahmini DÜZ PYTHON LİSTESİ olarak döndürür."""
    global _council
    if _council is None:
        _council = PyCouncil(_cfg)
        _council.predict()
    _log_snap(_council.capture())
    _council.learn(int(v), int(t))
    return _lst(_council.predict())


def step(v, t):
    """Yeni kaydı öğren; bir sonraki tahmini JSON dizesi olarak döndür (geriye dönük uyumluluk)."""
    return json.dumps(_step_core(v, t))


def step_fast(v, t):
    """step() ile aynı, ama JSON'a çevirmeden düz liste döndürür.
    Chaquopy Python listelerini otomatik dönüştürdüğü için her tuşlamada
    json.dumps + JSONArray.parse maliyetini ortadan kaldırır (bkz. PythonBridge.kt)."""
    return _step_core(v, t)


def undo():
    """Son kaydı geri al (geriye dönük uyumluluk)."""
    if _council is None:
        return ""
    return undo_to(len(_council.vals) - 1)


def _undo_to_core(n):
    """undo_to()'nun ortak mantığı. Dönüş None ise hedefe ulaşılamadı
    (Kotlin tarafı tam yeniden öğrenmeye düşer); aksi halde düz Python listesi."""
    global _council
    if _council is None:
        return None
    if n is None:
        n = len(_council.vals) - 1
    n = int(n)
    cur = len(_council.vals)
    if n < 0 or n > cur:
        return None
    if n == cur:
        return _lst(_council.last_mix)
    _prune(n)
    # 1) hedef tam olarak günlükte: O(1)
    if _journal and _journal[-1]["n"] == n and can_restore(_journal[-1]):
        if _restore(_journal.pop()):
            return _lst(_council.last_mix)
        return None
    # 2) en yakın dayanak + kısa ileri sarım (en çok CK_EVERY adım)
    while _checkpoints:
        s = _checkpoints.pop()
        if not can_restore(s):
            continue
        tail_v = list(_council.vals[s["n"]:n])
        tail_t = list(_council.times[s["n"]:n])
        if not _restore(s):
            return None
        c = _council
        for v, t in zip(tail_v, tail_t):
            c.predict()
            _log_snap(c.capture())
            c.learn(int(v), int(t))
        return _lst(c.predict())
    return None


def undo_to(n):
    """Kayıt sayısını tam olarak n'e döndür; n. sıradaki (bir sonraki) tahmini JSON
    dizesi olarak döndürür. Dönüş "" ise hedefe ulaşılamadı."""
    r = _undo_to_core(n)
    return "" if r is None else json.dumps(r)


def undo_to_fast(n):
    """undo_to() ile aynı, ama JSON'a çevirmeden döndürür.
    Boş liste [] dönerse hedefe ulaşılamadı demektir (Kotlin tarafı tam yeniden
    öğrenmeye düşer) — gerçek tahminler her zaman K elemanlıdır, hiçbir zaman boş
```

[Dosya #68/84 — Devam] Proje Yolu: app/src/main/python/fan_super.py (Satır 417 ve sonrası)

```
    olmaz, bu yüzden [] belirsizliğe yer bırakmayan bir "başarısız" işaretidir."""
    r = _undo_to_core(n)
    return [] if r is None else r


def undo_depth():
    """Kaç adımın anında geri alınabileceği (arayüz/teşhis için)."""
    if _council is None:
        return 0
    n = len(_council.vals)
    reach = n
    if _journal:
        reach = min(reach, _journal[0]["n"])
    if _checkpoints:
        reach = min(reach, _checkpoints[0]["n"])
    return n - reach


def stats():
    if _council is None:
        return "[]"
    return json.dumps(_council.stats())


def info():
    if _council is None:
        return json.dumps({"status": "hazırlanıyor"})
    return json.dumps({
        "status": "çalışıyor",
        "ms": round(_council.last_ms, 1),
        "n": len(_council.vals),
        "numpy": np.__version__,
        "dl": _council.dl,
        "undo": "%d adım anında · %d görüntü/%d dayanak" % (undo_depth(), len(_journal), len(_checkpoints)),
    })


def save_state(path):
    """Öğrenilmiş meclisi diske kaydeder (açılışta yeniden öğrenmemek için).

    Dayanaklar (anchors) da yazılır: uygulama yeniden açıldığında ilk geri alma
    bile tüm geçmişi baştan öğrenmek zorunda kalmaz.
    """
    import pickle
    if _council is None:
        return "yok"
    anchors = []
    for s in list(_checkpoints)[-ANCHORS:]:
        if s.get("c") is _council and can_restore(s):
            anchors.append(s)
    with open(path, "wb") as f:
        pickle.dump({"council": _council, "cfg": _cfg, "anchors": anchors}, f, protocol=pickle.HIGHEST_PROTOCOL)
    return "ok"


def load_state(path, values_json, times_json):
    """Kayıtlı durum mevcut veriyle birebir aynıysa yükler. Dönüş: replay() ile aynı biçim ya da """."""
    global _council
    import os
    import pickle
    if not os.path.exists(path):
        return ""
    try:
        with open(path, "rb") as f:
            d = pickle.load(f)
        c = d["council"]
        vals = json.loads(values_json)
        times = json.loads(times_json)
        iv = [int(x) for x in vals]
        it = [int(x) for x in times]
        if d.get("cfg") != _cfg:
            return ""
        k = len(c.vals)
        # Kayıtlı durum mevcut verinin ÖNEKİ olmalı (v1.3: yalnızca yeni kayıtlar işlenir).
        if k > len(iv) or c.vals != iv[:k] or c.times != it[:k]:
            return ""
        _council = c
        _journal.clear()
        _checkpoints.clear()
        tail = []
        if k < len(iv):
            for v, t in zip(iv[k:], it[k:]):
                c.predict()
                tail.append([_r6(p) for p in c.last_preds])
                _log_snap(c.capture())
```

[Dosya #68/84 — Devam] Proje Yolu: app/src/main/python/fan_super.py (Satır 502 ve sonrası)

```
502                 c.learn(int(v), int(t))
503         for a in (d.get("anchors") or []):
504             try:
505                 if k == len(iv) and a.get("c") is c and 0 <= int(a["n"]) <= len(c.vals) and can_restore(a):
506                     _checkpoints.append(a)
507             except Exception:
508                 pass
509         nxt = c.predict()
510         return json.dumps({"per": c.per, "next": _lst(nxt), "cached": k, "ids": [m.id for m in c.members],
511                            "tail_members": tail})
512     except Exception:
513         return ""
514
515
516 # ================================================================ v1.3 YAN MECLİSİ
517 # Yan (Büyük/Küçük + Tek/Çift) tahmini rakamdan türetilmez: ayrı bir meclis, ayrı diziler.
518 # Kotlin tarafı sayıyı değil, hazır yan kodlarını (bs: 0 KÜÇÜK/1 BÜYÜK, oe: 0 ÇİFT/1 TEK) gönderir.
519 _side = None
520 _side_ring = deque(maxlen=JOURNAL)     # undo: adım öncesi küçük görüntüler
521
522
523 def _side_pack():
524     per, mix = _side.last, _side.last_mix
525     if per is None:
526         per, mix = _side.predict()
527     d = fsd.pack(_side, per, mix)
528     d["ids"] = _side.ids()
529     d["names"] = _side.names()
530     d["n"] = _side.S.n
531     return d
532
533
534 def _side_run(c, bs, oe, ts, collect):
535     steps = []
536     for i, (b, o) in enumerate(zip(bs, oe)):
537         per, mix = c.predict()
538         if collect:
539             steps.append(fsd.pack(c, per, mix))
540         c.learn(int(b), int(o), int(ts[i]) if i < len(ts) else 0)
541     return steps
542
543
544 def side_replay(bs_json, oe_json, times_json="[]", sandbox=False):
545     """Yan meclisini baştan öğren. sandbox=True ise canlı yan meclisine DOKUNMAZ.
546     Dönüş: {"ids", "steps": [adım başına üye dağılımları], "next": {...}}"""
547     global _side
548     bs = json.loads(bs_json)
549     oe = json.loads(oe_json)
550     ts = json.loads(times_json) if times_json else []
551     c = fsd.SideCouncil()
552     steps = _side_run(c, bs, oe, ts, True)
553     per, mix = c.predict()
554     nxt = fsd.pack(c, per, mix)
555     if not sandbox:
556         _side = c
557         _side_ring.clear()
558     return json.dumps({"ids": c.ids(), "names": c.names(), "steps": steps, "next": nxt})
559
560
561 def side_next():
562     """Canlı yan meclisinin bir sonraki tahmini (JSON)."""
563     if _side is None:
564         return ""
565     return json.dumps(_side_pack())
566
567
568 def side_step(bs, oe, t=0):
569     """Yeni kaydın yan kodlarını öğren; bir sonraki yan tahminini döndür (JSON)."""
570     global _side
571     if _side is None:
572         _side = fsd.SideCouncil()
573         _side.predict()
574     if _side.last is None:
575         _side.predict()
576     _side_ring.append(_side.snap())
577     _side.learn(int(bs), int(oe), int(t))
578     _side.predict()
579     return json.dumps(_side_pack())
580
581
582 def side_undo_to(n):
583     """Yan meclisini tam n kayda döndür. Dönüş "" ise hedefe ulaşılamadı (Kotlin yeniden öğretir)."""
584     global _side
585     if _side is None:
586         return ""
```

[Dosya #68/84 — Devam] Proje Yolu: app/src/main/python/fan_super.py (Satır 587 ve sonrası)

```
587     n = int(n)
588     if n > _side.S.n or n < 0:
589         return ""
590     if n == _side.S.n:
591         return json.dumps(_side_pack())
592     while _side_ring and _side_ring[-1]["n"] > n:
593         _side_ring.pop()
594     if _side_ring and _side_ring[-1]["n"] == n:
595         s = _side_ring.pop()
596         if _side.restore(s):
597             _side.predict()
598             return json.dumps(_side_pack())
599     return ""
600
601
602 def side_save(path):
603     import pickle
604     if _side is None:
605         return "yok"
606     with open(path, "wb") as f:
607         pickle.dump({"side": _side}, f, protocol=pickle.HIGHEST_PROTOCOL)
608     return "ok"
609
610
611 def side_load(path, bs_json, oe_json):
612     """Kayıtlı yan meclisi, mevcut verinin ÖNEKİYSE yükler ve yalnızca yeni kayıtları işler.
613     Dönüş: side_next() biçimi (+ "cached") ya da """."""
614     global _side
615     import os
616     import pickle
617     if not os.path.exists(path):
618         return ""
619     try:
620         with open(path, "rb") as f:
621             c = pickle.load(f)["side"]
622         bs = [int(x) for x in json.loads(bs_json)]
623         oe = [int(x) for x in json.loads(oe_json)]
624         k = c.S.n
625         if k > len(bs) or c.S.bs != bs[:k] or c.S.oe != oe[:k]:
626             return ""
627         tail = []
628         for b, o in zip(bs[k:], oe[k:]):
629             per, mix = c.predict()
630             tail.append(fsd.pack(c, per, mix))
631             c.learn(b, o)
632         c.predict()
633         _side = c
634         _side_ring.clear()
635         d = _side_pack()
636         d["cached"] = k
637         d["tail"] = tail
638         return json.dumps(d)
639     except Exception:
640         return ""
```

[Dosya #69/84] Proje Yolu: app/src/main/python/fan_members.py

BÖLÜM 9 · Python

Kök: /home/user/FanSuper-FANLAB | Boyut: 24.038 B (23.5 KB) | Satır: 737 satır SHA-256: a01e8021b22181c3ae7188f1b8f5cfe3…

```
1  # -*- coding: utf-8 -*-
2  """
3  FAN SUPER — Python Meclisi üyeleri.
4  Tüm değerler 0..3 (kullanıcı sayısı 1..4). Her üye:
5      predict(h) -> np.ndarray(4)   (h.n kayıt bilinirken sonraki için dağılım)
6      update(h)                     (h.n kayıt; son kayıt yeni gelen gerçek sonuç)
7
8  Geri alma (undo) protokolü — fan_super.py hızlı geri alma için kullanır:
9      snap()         -> adım öncesi durumun UCUZ kaydı (büyük tablolar kopyalanmaz)
10     can_restore(s) -> bu kayıt hâlâ geri yüklenebilir mi
11     restore(s)     -> kayda geri dön, başarı için True
12 Bu üçlüyü tanımlamayan üyeler için `dict(m.__dict__)` sığ kopyası kullanılır.
13 Bu yüzden hiçbir üye paylaşılan numpy dizilerini / listeleri / sözlükleri
14 YERİNDE değiştirmemeli, her zaman yeni bir nesne atamalıdır.
15 """
16 import math
17 import numpy as np
18
19 K = 4
20
21 # Tablo tutan üyelerin (MotifDiscovery) geri alma günlüğü üst sınırı.
22 UNDO_LOG_MAX = 20000
23
24
25 def norm(p, floor=1e-4):
```

[Dosya #69/84 — Devam] Proje Yolu: app/src/main/python/fan_members.py (Satır 26 ve sonrası)

```
26      p = np.asarray(p, dtype=float)
27      p = np.where(np.isfinite(p), p, floor)
28      p = np.maximum(p, floor)
29      return p / p.sum()
30
31
32  def softmax(z):
33      z = z - np.max(z)
34      e = np.exp(z)
35      return e / e.sum()
36
37
38  class Hist:
39      """Geçmiş görünümü: v[:n], t[:n]."""
40      __slots__ = ("v", "t", "n")
41
42      def __init__(self, v, t, n):
43          self.v = v
44          self.t = t
45          self.n = n
46
47
48  def token_feat(v):
49      x = np.zeros(7)
50      x[v] = 1.0
51      x[4] = 1.0 if v % 2 == 0 else -1.0
52      x[5] = 1.0 if v >= 2 else -1.0
53      x[6] = 1.0
54      return x
55
56
57  # ------------------------------------------------------------------ özellikler
58  FEAT_DIM = 36
59
60
61  def features(h, end):
62      """end kayıt bilinirken bağlam özellikleri (GB ve Bağlam modeli için)."""
63      v, t = h.v, h.t
64      f = np.zeros(FEAT_DIM)
65      for j in range(5):
66          i = end - 1 - j
67          if i >= 0:
68              f[j * 4 + int(v[i])] = 1.0
69      # aralıklar
70      for k in range(K):
71          g = 30
72          for i in range(end - 1, max(-1, end - 31), -1):
73              if v[i] == k:
74                  g = end - 1 - i
75                  break
76          f[20 + k] = min(g, 30) / 10.0
77      s = max(0, end - 20)
78      if end > s:
79          c = np.bincount(np.asarray(v[s:end], dtype=int), minlength=K)
80          f[24:28] = c / float(end - s)
81      if end >= 1:
82          last = v[end - 1]
83
84          def run(fn):
85              r = 1
86              i = end - 2
87              while i >= 0 and fn(v[i]) == fn(last):
88                  r += 1
89                  i -= 1
90              return min(r, 8) / 4.0
91          f[28] = run(lambda x: x)
92          f[29] = run(lambda x: x % 2)
93          f[30] = run(lambda x: x >= 2)
94          hr = ((t[end - 1] // 3600) % 24) / 24.0 * 2 * math.pi
95          f[31] = math.sin(hr)
96          f[32] = math.cos(hr)
97          if end >= 2:
98              f[33] = math.log1p(max(0, t[end - 1] - t[end - 2])) / 5.0
99      f[34] = min(end, 2000) / 2000.0
100     f[35] = 1.0
101     return f
102
103
104 # ------------------------------------------------------------------ 1) LSTM
105 class LSTM:
106     id = "lstm"
107     name = "LSTM"
108     dl = True
109
110     def __init__(self, H=16, T=10, lr=0.05, seed=3):
```

[Dosya #69/84 — Devam] Proje Yolu: app/src/main/python/fan_members.py (Satır 111 ve sonrası)

```
111         rng = np.random.RandomState(seed)
112         self.H, self.T, self.lr = H, T, lr
113         D = 7 + H
114         self.W = rng.uniform(-1, 1, (4 * H, D)) / math.sqrt(D)
115         self.b = np.zeros(4 * H)
116         self.b[H:2 * H] = 1.0  # unutma kapısı
117         self.Wy = rng.uniform(-1, 1, (K, H)) / math.sqrt(H)
118         self.by = np.zeros(K)
119         self.train = True
120
121     def _fwd(self, h, end):
122         H = self.H
123         hp = np.zeros(H)
124         cp = np.zeros(H)
125         cache = []
126         for i in range(max(0, end - self.T), end):
127             x = np.concatenate([token_feat(int(h.v[i])), hp])
128             a = self.W @ x + self.b
129             ig = 1 / (1 + np.exp(-a[:H]))
130             fg = 1 / (1 + np.exp(-a[H:2 * H]))
131             og = 1 / (1 + np.exp(-a[2 * H:3 * H]))
132             gg = np.tanh(a[3 * H:])
133             c = fg * cp + ig * gg
134             tc = np.tanh(c)
135             hn = og * tc
136             cache.append((x, cp, ig, fg, og, gg, c, tc))
137             hp, cp = hn, c
138         return hp, cache
139
140     def predict(self, h):
141         if h.n < 2:
142             return np.full(K, 0.25)
143         hT, _ = self._fwd(h, h.n)
144         return norm(softmax(self.Wy @ hT + self.by))
145
146     def update(self, h):
147         end = h.n - 1
148         if end < 2 or not self.train:
149             return
150         H = self.H
151         hT, cache = self._fwd(h, end)
152         y = softmax(self.Wy @ hT + self.by)
153         dy = y.copy()
154         dy[int(h.v[end])] -= 1
155         dh = self.Wy.T @ dy
156         # Geri alma (undo) anlık görüntüleri dizi nesnelerini paylaştığı için
157         # ağırlıklar her zaman YENİ bir diziye yazılır (yerinde -= kullanılmaz).
158         self.Wy = self.Wy - self.lr * np.outer(dy, hT)
159         self.by = self.by - self.lr * dy
160         dW = np.zeros_like(self.W)
161         db = np.zeros_like(self.b)
162         dc = np.zeros(H)
163         for (x, cp, ig, fg, og, gg, c, tc) in reversed(cache):
164             do = dh * tc
165             dc = dc + dh * og * (1 - tc * tc)
166             di = dc * gg
167             df = dc * cp
168             dg = dc * ig
169             da = np.concatenate([di * ig * (1 - ig), df * fg * (1 - fg), do * og * (1 - og), dg * (1 - gg * gg)])
170             dW += np.outer(da, x)
171             db += da
172             dx = self.W.T @ da
173             dh = dx[7:]
174             dc = dc * fg
175         np.clip(dW, -1, 1, out=dW)
176         np.clip(db, -1, 1, out=db)
177         self.W = self.W - self.lr * dW
178         self.b = self.b - self.lr * db
179
180
181 # ---------------------------------------------------------------- 2) Mini Transformer (dikkat)
182 class MiniTransformer:
183     """Tek başlı dikkat (induction head): şu anki bağlama benzeyen geçmiş konumlara dikkat eder,
184     onların ardından gelen değerleri oylar. Bilineer dikkat matrisi M ve konum yanlılığı öğrenilir."""
185     id = "transformer"
186     name = "Transformer"
187     dl = True
188
189     def __init__(self, C=96, lr=0.05, seed=5):
190         rng = np.random.RandomState(seed)
191         self.C, self.lr = C, lr
192         self.D = 13
193         self.M = np.eye(self.D) * 0.5 + rng.normal(0, 0.05, (self.D, self.D))
194         self.pb = np.zeros(C)
195         self.train = True
```

[Dosya #69/84 — Devam] Proje Yolu: app/src/main/python/fan_members.py (Satır 196 ve sonrası)

```
        self._cache = None

    def _tok(self, v, i):
        x = np.zeros(self.D)
        for j in range(3):
            if i - j >= 0:
                x[j * 4 + int(v[i - j])] = 1.0
        x[12] = 1.0
        return x

    def _attn(self, h, end):
        if end < 3:
            return None
        q = self._tok(h.v, end - 1)
        lo = max(0, end - 1 - self.C)
        idx = np.arange(lo, end - 1)
        if len(idx) == 0:
            return None
        Kx = np.stack([self._tok(h.v, i) for i in idx])
        dist = (end - 2) - idx
        s = Kx @ (self.M.T @ q) + self.pb[dist]
        a = softmax(s)
        Y = np.zeros((len(idx), K))
        Y[np.arange(len(idx)), np.asarray(h.v[idx + 1], dtype=int)] = 1.0
        p = a @ Y
        return q, Kx, dist, a, Y, p

    def predict(self, h):
        r = self._attn(h, h.n)
        if r is None:
            return np.full(K, 0.25)
        return norm(0.85 * r[5] + 0.15 / K)

    def update(self, h):
        if not self.train:
            return
        end = h.n - 1
        r = self._attn(h, end)
        if r is None:
            return
        q, Kx, dist, a, Y, p = r
        y = int(h.v[end])
        pa = 0.85 * p[y] + 0.15 / K
        ds = -(0.85 / pa) * a * (Y[:, y] - p[y])
        gM = np.outer(q, ds @ Kx)  # dL/dM = sum_j ds_j q k_j^T
        self.M = self.M - self.lr * np.clip(gM, -1, 1)
        upd = np.zeros(self.C)          # yerinde np.add.at yerine: yeni dizi (undo için güvenli)
        np.add.at(upd, np.asarray(dist, dtype=int), -self.lr * ds)
        self.pb = self.pb + upd


# ---------------------------------------------------------------- 3) 1D-CNN
class CNN1D:
    id = "cnn"
    name = "1D-CNN"
    dl = True

    def __init__(self, W=16, F=8, lr=0.03, seed=9):
        rng = np.random.RandomState(seed)
        self.Wn, self.F, self.lr = W, F, lr
        self.C = 6
        self.k = rng.normal(0, 0.3, (F, self.C, 3))
        self.kb = np.zeros(F)
        self.Wo = rng.normal(0, 0.1, (K, 2 * F + 1))
        self.train = True

    def _x(self, h, end):
        X = np.zeros((self.C, self.Wn))
        for j in range(self.Wn):
            i = end - self.Wn + j
            if i >= 0:
                v = int(h.v[i])
                X[v, j] = 1.0
                X[4, j] = 1.0 if v % 2 == 0 else -1.0
                X[5, j] = 1.0 if v >= 2 else -1.0
        return X

    def _fwd(self, X):
        L = self.Wn - 2
        Z = np.zeros((self.F, L))
        for p in range(L):
            Z[:, p] = np.einsum("fcw,cw->f", self.k, X[:, p:p + 3]) + self.kb
        A = np.maximum(Z, 0)
        mi = A.argmax(axis=1)
        feat = np.concatenate([A[np.arange(self.F), mi], A[:, -1], [1.0]])
```

[Dosya #69/84 — Devam] Proje Yolu: app/src/main/python/fan_members.py (Satır 281 ve sonrası)

```
281         return Z, A, mi, feat
282
283     def predict(self, h):
284         if h.n < 4:
285             return np.full(K, 0.25)
286         _, _, _, f = self._fwd(self._x(h, h.n))
287         return norm(softmax(self.Wo @ f))
288
289     def update(self, h):
290         end = h.n - 1
291         if end < 4 or not self.train:
292             return
293         X = self._x(h, end)
294         Z, A, mi, f = self._fwd(X)
295         y = softmax(self.Wo @ f)
296         dy = y.copy()
297         dy[int(h.v[end])] -= 1
298         df = self.Wo.T @ dy
299         self.Wo = self.Wo - self.lr * np.outer(dy, f)
300         L = self.Wn - 2
301         k = None
302         kb = None
303         for fi in range(self.F):
304             for pos, g in ((mi[fi], df[fi]), (L - 1, df[self.F + fi])):
305                 if Z[fi, pos] > 0 and g != 0:
306                     if k is None:                 # kopya üzerinde çalış: eski dizi undo için bozulmadan kalır
307                         k = self.k.copy()
308                         kb = self.kb.copy()
309                     k[fi] -= self.lr * g * X[:, pos:pos + 3]
310                     kb[fi] -= self.lr * g
311         if k is not None:
312             self.k = k
313             self.kb = kb
314
315
316 # ---------------------------------------------------------------- 4) Kalıp 2.0 bulanık
317 class KalipBulanik:
318     """Tüm geçmişte en fazla 1 farkla eşleşen kalıpları (ve aynalarını) arar."""
319     id = "kalip_fuzzy"
320     name = "Kalıp 2.0 bulanık"
321     dl = False
322
323     def __init__(self, lens=range(4, 13)):
324         self.lens = list(lens)
325
326     def predict(self, h):
327         n = h.n
328         if n < 6:
329             return np.full(K, 0.25)
330         v = np.asarray(h.v[:n], dtype=np.int8)
331         votes = np.zeros(K)
332         for L in self.lens:
333             if n <= L + 1:
334                 break
335             s = v[n - L:]
336             W = np.lib.stride_tricks.sliding_window_view(v[:n - 1], L)  # son eleman takipçi olmalı
337             fol = v[L:n]
338             m = W.shape[0]
339             W = W[:m]
340             fol = fol[:m]
341             tol = 1 if L >= 6 else 0
342             mis = (W != s).sum(axis=1)
343             ok = mis <= tol
344             if ok.any():
345                 w = (L ** 1.5) * np.where(mis[ok] == 0, 1.0, 0.4)
346                 np.add.at(votes, fol[ok], w)
347             mir = (W != (3 - s)).sum(axis=1)
348             ok2 = mir <= tol
349             if ok2.any():
350                 w2 = 0.5 * (L ** 1.5) * np.where(mir[ok2] == 0, 1.0, 0.4)
351                 np.add.at(votes, 3 - fol[ok2], w2)
352         tot = votes.sum()
353         if tot <= 0:
354             return np.full(K, 0.25)
355         return norm((votes + 0.25 * tot * 0.2) / (tot * 1.2))
356
357     def update(self, h):
358         pass
359
360
361 # ---------------------------------------------------------------- 5) kNN-DTW
362 class KnnDtw:
363     id = "knn_dtw"
364     name = "kNN-DTW"
365     dl = False
```

[Dosya #69/84 — Devam] Proje Yolu: app/src/main/python/fan_members.py (Satır 366 ve sonrası)

```python

    def __init__(self, w=8, k=25):
        self.w, self.k = w, k

    def predict(self, h):
        n, w = h.n, self.w
        if n < w + 10:
            return np.full(K, 0.25)
        v = np.asarray(h.v[:n], dtype=np.int8)
        q = v[n - w:]
        W = np.lib.stride_tricks.sliding_window_view(v[:n - 1], w)
        fol = v[w:n]
        m = min(W.shape[0], len(fol))
        W, fol = W[:m], fol[:m]

        def cost(a, b):
            return (a != b) * 1.0 + ((a >= 2) != (b >= 2)) * 0.5 + ((a % 2) != (b % 2)) * 0.5

        # Bantlı DTW (|i-j|<=1), tüm pencereler için vektörel
        INF = 1e9
        D = np.full((m, w + 1, w + 1), INF)
        D[:, 0, 0] = 0
        for i in range(1, w + 1):
            for j in range(max(1, i - 1), min(w, i + 1) + 1):
                c = cost(W[:, i - 1], q[j - 1])
                D[:, i, j] = c + np.minimum(np.minimum(D[:, i - 1, j], D[:, i, j - 1]), D[:, i - 1, j - 1])
        d = D[:, w, w]
        kk = min(self.k, m)
        idx = np.argpartition(d, kk - 1)[:kk]
        wt = np.exp(-d[idx])
        votes = np.zeros(K)
        np.add.at(votes, fol[idx], wt)
        return norm((votes + 0.3) / (votes.sum() + 1.2))

    def update(self, h):
        pass


# ---------------------------------------------------------------- 6) Spektral + BOCPD
class SpectralBocpd:
    id = "spectral"
    name = "Spektral/BOCPD"
    dl = False

    def __init__(self, R=200, hazard=1.0 / 150):
        self.R, self.hz = R, hazard
        self.rp = np.array([1.0])
        self.cnt = np.zeros((1, K))
        self.spec = None
        self.step = 0

    def _bocpd_pred(self):
        pr = (self.cnt + 0.5) / (self.cnt.sum(axis=1, keepdims=True) + 2.0)
        return self.rp @ pr

    def _spectral(self, h):
        n = h.n
        L = min(n, 256)
        if L < 64:
            self.spec = None
            return
        v = np.asarray(h.v[n - L:n], dtype=int)
        comps = []
        for k in range(K):
            x = (v == k).astype(float) - 0.25
            F = np.fft.rfft(x)
            P = np.abs(F[1:]) ** 2
            top = np.argsort(P)[-3:] + 1
            comps.append([(f, F[f]) for f in top])
        self.spec = (L, n, comps)

    def _spec_pred(self, h):
        if self.spec is None:
            return np.full(K, 0.25)
        L, n0, comps = self.spec
        t = (h.n - n0) + L  # tahmin edilen konum
        sc = np.zeros(K)
        for k in range(K):
            for f, c in comps[k]:
                sc[k] += 2.0 / L * (c.real * math.cos(2 * math.pi * f * t / L) - c.imag * math.sin(2 * math.pi * f * t / L))
        return softmax(sc * 4.0)

    def predict(self, h):
        return norm(0.6 * self._bocpd_pred() + 0.4 * self._spec_pred(h))

```

[Dosya #69/84 — Devam] Proje Yolu: app/src/main/python/fan_members.py (Satır 451 ve sonrası)

```
    def update(self, h):
        x = int(h.v[h.n - 1])
        pr = (self.cnt[:, x] + 0.5) / (self.cnt.sum(axis=1) + 2.0)
        grow = self.rp * pr * (1 - self.hz)
        cp = (self.rp * pr * self.hz).sum()
        rp = np.concatenate([[cp], grow])[: self.R]
        rp /= rp.sum()
        cnt = np.vstack([np.zeros((1, K)), self.cnt])[: self.R]
        cnt[1:, x] += 1
        self.rp, self.cnt = rp, cnt
        self.step += 1
        if self.step % 10 == 0:
            self._spectral(h)


# ---------------------------------------------------------------- 7) Gradient Boosting
class GradBoost:
    """Çok sınıflı gradient boosting (karar kütükleri); periyodik yeniden eğitim."""
    id = "gboost"
    name = "Gradient Boost"
    dl = False

    def __init__(self, every=50, rounds=25, lr=0.3, maxn=600):
        self.every, self.rounds, self.lr, self.maxn = every, rounds, lr, maxn
        self.X = []
        self.y = []
        self.model = None
        self.since = 0
        self.slow = 1

    def _fit(self):
        X = np.array(self.X[-self.maxn:])
        y = np.array(self.y[-self.maxn:])
        n = len(y)
        if n < 80:
            self.model = None
            return
        Y = np.zeros((n, K))
        Y[np.arange(n), y] = 1
        F = np.zeros((n, K))
        stumps = []
        # eşik adayları: her özellik için 3 çeyreklik
        qs = np.percentile(X, [25, 50, 75], axis=0)
        for _ in range(self.rounds):
            Pm = np.exp(F - F.max(axis=1, keepdims=True))
            Pm /= Pm.sum(axis=1, keepdims=True)
            G = Y - Pm
            rnd = []
            for k in range(K):
                g = G[:, k]
                best = (0, 0, 0.0, 0.0, 0.0)
                bestgain = -1
                for qi in range(3):
                    thr = qs[qi]
                    mask = X > thr  # n × d
                    cnt_r = mask.sum(axis=0)
                    cnt_l = n - cnt_r
                    s_r = g @ mask
                    s_l = g.sum() - s_r
                    gain = np.where(cnt_r > 5, s_r ** 2 / np.maximum(cnt_r, 1), 0) + np.where(cnt_l > 5, s_l ** 2 / np.maximum(cnt_l, 1), 0)
                    j = int(np.argmax(gain))
                    if gain[j] > bestgain:
                        bestgain = gain[j]
                        vl = s_l[j] / max(cnt_l[j], 1)
                        vr = s_r[j] / max(cnt_r[j], 1)
                        best = (j, qi, thr[j], vl * 1.5, vr * 1.5)
                j, _, thr, vl, vr = best
                F[:, k] += self.lr * np.where(X[:, j] > thr, vr, vl)
                rnd.append((j, thr, vl, vr))
            stumps.append(rnd)
        self.model = stumps

    def predict(self, h):
        if self.model is None:
            return np.full(K, 0.25)
        x = features(h, h.n)
        f = np.zeros(K)
        for rnd in self.model:
            for k, (j, thr, vl, vr) in enumerate(rnd):
                f[k] += self.lr * (vr if x[j] > thr else vl)
        return norm(softmax(f))

    def update(self, h):
        end = h.n - 1
```

[Dosya #69/84 — Devam] Proje Yolu: app/src/main/python/fan_members.py (Satır 535 ve sonrası)

```
535         self.X.append(features(h, end))
536         self.y.append(int(h.v[end]))
537         if len(self.X) > 3000:
538             self.X = self.X[-self.maxn:]
539             self.y = self.y[-self.maxn:]
540         self.since += 1
541         if self.since >= self.every * self.slow:
542             self.since = 0
543             self._fit()
544 
545     # ---- geri alma: örneklem listelerini kopyalamadan, kimlik + uzunlukla O(1) ----
546     def snap(self):
547         return (self.X, len(self.X), self.y, len(self.y), self.since, self.model)
548 
549     def can_restore(self, s):
550         return True
551 
552     def restore(self, s):
553         X, nx, Y, ny, since, model = s
554         if self.X is X:
555             del X[nx:]
556         else:
557             self.X = X[:nx]
558         if self.y is Y:
559             del Y[ny:]
560         else:
561             self.y = Y[:ny]
562         self.since = since
563         self.model = model
564         return True
565 
566 
567 # ---------------------------------------------------------------- 8) Bağlam modeli
568 class ContextModel:
569     """Çevrimiçi softmax regresyon: son sayılar, aralıklar, seri uzunlukları, saat ve giriş aralığı."""
570     id = "context"
571     name = "Bağlam modeli"
572     dl = False
573 
574     def __init__(self, lr=0.02, l2=1e-4):
575         self.W = np.zeros((K, FEAT_DIM))
576         self.lr, self.l2 = lr, l2
577 
578     def predict(self, h):
579         return norm(softmax(self.W @ features(h, h.n)))
580 
581     def update(self, h):
582         end = h.n - 1
583         x = features(h, end)
584         p = softmax(self.W @ x)
585         p[int(h.v[end])] -= 1
586         self.W = self.W - self.lr * (np.outer(p, x) + self.l2 * self.W)
587 
588 
589 # ---------------------------------------------------------------- 9) Motif keşfi
590 class MotifDiscovery:
591     """Anlamlı (yeterli desteği olan, şanstan sapan) motifleri bulur ve 'lift' ile oylar."""
592     id = "motif"
593     name = "Motif keşfi"
594     dl = False
595 
596     def __init__(self, kmax=6, support=8):
597         self.kmax, self.support = kmax, support
598         self.tab = {}
599         self._undo = []      # [(anahtar, eski dizi ya da None)] — son adımların değişiklik günlüğü
600         self._dropped = 0    # günlük kırpıldıysa atılan kayıt sayısı
601 
602     def predict(self, h):
603         n = h.n
604         v = h.v
605         logp = np.zeros(K)
606         used = 0
607         for k in range(2, self.kmax + 1):
608             if n < k:
609                 break
610             key = (k,) + tuple(int(x) for x in v[n - k:n])
611             c = self.tab.get(key)
612             if c is None:
613                 continue
614             tot = c.sum()
615             if tot < self.support:
616                 continue
617             p = (c + 0.5) / (tot + 2.0)
618             # z-skoru: şanstan sapma yeterince büyükse kullan
619             z = np.abs(p - 0.25) / math.sqrt(0.1875 / tot)
```

[Dosya #69/84 — Devam] Proje Yolu: app/src/main/python/fan_members.py (Satır 620 ve sonrası)

```
            if z.max() < 1.5:
                continue
            logp += min(1.0, tot / 30.0) * np.log(p / 0.25)
            used += 1
        if used == 0:
            return np.full(K, 0.25)
        return norm(softmax(logp))

    def update(self, h):
        n = h.n
        v = h.v
        a = int(v[n - 1])
        for k in range(2, self.kmax + 1):
            if n - 1 < k:
                break
            key = (k,) + tuple(int(x) for x in v[n - 1 - k:n - 1])
            old = self.tab.get(key)
            c = np.zeros(K) if old is None else old.copy()   # kopya üzerinde yaz: eski durum bozulmaz
            c[a] += 1
            self.tab[key] = c
            self._undo.append((key, old))
        if len(self._undo) > UNDO_LOG_MAX:
            keep = UNDO_LOG_MAX // 2
            self._dropped += len(self._undo) - keep
            del self._undo[:len(self._undo) - keep]

    # ---- geri alma: tablo kopyalanmaz, günlük geri sarılır ----
    def snap(self):
        return (self.tab, len(self._undo) + self._dropped)

    def can_restore(self, s):
        return s[1] >= self._dropped

    def restore(self, s):
        tab, depth = s
        target = depth - self._dropped
        if target < 0:
            return False
        self.tab = tab
        while len(self._undo) > target:
            key, old = self._undo.pop()
            if old is None:
                tab.pop(key, None)
            else:
                tab[key] = old
        return True


# ---------------------------------------------------------------- 10) HMM
class HMM:
    id = "hmm"
    name = "HMM"
    dl = False

    def __init__(self, S=3, every=50, win=400, seed=1):
        rng = np.random.RandomState(seed)
        self.S, self.every, self.win = S, every, win
        self.A = np.full((S, S), 0.1 / (S - 1))
        np.fill_diagonal(self.A, 0.9)
        self.B = rng.dirichlet(np.ones(K) * 5, S)
        self.pi = np.full(S, 1.0 / S)
        self.alpha = self.pi.copy()
        self.since = 0
        self.slow = 1

    def _fit(self, obs):
        S = self.S
        A, B, pi = self.A.copy(), self.B.copy(), self.pi.copy()
        T = len(obs)
        for _ in range(8):
            al = np.zeros((T, S))
            c = np.zeros(T)
            al[0] = pi * B[:, obs[0]]
            c[0] = al[0].sum()
            al[0] /= c[0]
            for t in range(1, T):
                al[t] = (al[t - 1] @ A) * B[:, obs[t]]
                c[t] = al[t].sum()
                al[t] /= c[t]
            be = np.ones((T, S))
            for t in range(T - 2, -1, -1):
                be[t] = (A @ (B[:, obs[t + 1]] * be[t + 1])) / c[t + 1]
            g = al * be
            g /= g.sum(axis=1, keepdims=True)
            xi = np.zeros((S, S))
```

[Dosya #69/84 — Devam] Proje Yolu: app/src/main/python/fan_members.py (Satır 705 ve sonrası)

```
            for t in range(T - 1):
                m = np.outer(al[t], B[:, obs[t + 1]] * be[t + 1]) * A / c[t + 1]
                xi += m
            A = xi / xi.sum(axis=1, keepdims=True)
            for k in range(K):
                B[:, k] = g[obs == k].sum(axis=0) + 0.5
            B /= B.sum(axis=1, keepdims=True)
            pi = g[0]
        self.A, self.B, self.pi = A, B, pi
        # filtrelemeyi yeniden hesapla
        a = pi * B[:, obs[0]]
        a /= a.sum()
        for t in range(1, T):
            a = (a @ A) * B[:, obs[t]]
            a /= a.sum()
        self.alpha = a

    def predict(self, h):
        return norm((self.alpha @ self.A) @ self.B)

    def update(self, h):
        x = int(h.v[h.n - 1])
        a = (self.alpha @ self.A) * self.B[:, x]
        self.alpha = a / a.sum()
        self.since += 1
        if self.since >= self.every * self.slow and h.n >= 100:
            self.since = 0
            self._fit(np.asarray(h.v[max(0, h.n - self.win):h.n], dtype=int))


def all_members():
    return [LSTM(), MiniTransformer(), CNN1D(), KalipBulanik(), KnnDtw(),
            SpectralBocpd(), GradBoost(), ContextModel(), MotifDiscovery(), HMM()]
```

[Dosya #70/84] Proje Yolu: app/src/main/python/fan_side.py

BÖLÜM 9 · Python

Kök: /home/user/FanSuper-FANLAB | Boyut: 10.681 B (10.4 KB) | Satır: 340 satır SHA-256: 844eec41719da448ad92a8045ba5fb7f…

```
# -*- coding: utf-8 -*-
"""
FAN SUPER v1.3 — Python YAN (Büyük/Küçük + Tek/Çift) analiz meclisi.

Yan tahmini rakamdan TÜRETİLMEZ: bu modül yalnızca iki ayrı yan dizisini öğrenir.

    bs  : 0 = KÜÇÜK (SMALL), 1 = BÜYÜK (BIG)
    oe  : 0 = ÇİFT  (EVEN),  1 = TEK   (ODD)
    comb: bs * 2 + oe   (0 SMALL_EVEN, 1 SMALL_ODD, 2 BIG_EVEN, 3 BIG_ODD)

Üç üye, her biri üç ekseni (bs, oe, comb) ayrı ayrı tahmin eder:
    * SideKalip  — Kalıp analiz 2.0 (en çok 1 farkla bulanık eşleşme + ayna) yan dizileri üzerinde.
                   Hem Büyük/Küçük hem Tek/Çift ekseninde ve birleşik dizide çalışır.
    * SideNgram  — geri çekilmeli (backoff) n-gram geçiş tabloları.
    * SideLogit  — seri/pencere/çapraz-eksen özellikleriyle çevrimiçi lojistik/softmax regresyon.
                   Seri (streak) yalnızca öğrenilmiş ağırlık kadar etkilidir; "artık kesin döner" yok.

Tüm durum küçüktür (tablolar + ağırlıklar); adım başına anlık görüntü ucuzdur (undo için).
Gelecek veriye erişim yoktur: üyeler yalnızca tahmin anında bilinen diziyi görür; gerçek sonuç
learn() ile tahminden SONRA eklenir.
"""
import copy
import math

import numpy as np

AXES = ("bs", "oe", "comb")
KAX = {"bs": 2, "oe": 2, "comb": 4}


def _norm(p, floor=1e-4):
    p = np.asarray(p, dtype=float)
    p = np.where(np.isfinite(p), p, floor)
    p = np.maximum(p, floor)
    return p / p.sum()


class SideSeq:
    """Bilinen yan dizileri (yalnızca geçmiş)."""

    def __init__(self):
        self.bs = []
        self.oe = []
        self.cb = []
        self.t = []

```

[Dosya #70/84 — Devam] Proje Yolu: app/src/main/python/fan_side.py (Satır 47 ve sonrası)

```
47      @property
48      def n(self):
49          return len(self.bs)
50
51      def seq(self, axis):
52          return self.bs if axis == "bs" else self.oe if axis == "oe" else self.cb
53
54      def append(self, bs, oe, t=0):
55          self.bs.append(int(bs))
56          self.oe.append(int(oe))
57          self.cb.append(int(bs) * 2 + int(oe))
58          self.t.append(int(t))
59
60      def truncate(self, n):
61          del self.bs[n:]
62          del self.oe[n:]
63          del self.cb[n:]
64          del self.t[n:]
65
66
67  class SideKalip:
68      """Kalıp analiz 2.0 — yan dizileri üzerinde bulanık (1 fark) + ayna eşleşme."""
69      id = "py_side_kalip"
70      name = "Kalıp 2.0 yan"
71
72      LENS = {"bs": range(4, 15), "oe": range(4, 15), "comb": range(3, 9)}
73
74      def predict(self, S, regime=0):
75          out = {}
76          for ax in AXES:
77              out[ax] = self._axis(np.asarray(S.seq(ax), dtype=np.int8), KAX[ax], self.LENS[ax])
78          return out
79
80      @staticmethod
81      def _axis(x, k, lens):
82          n = len(x)
83          if n < 6:
84              return np.full(k, 1.0 / k)
85          votes = np.zeros(k)
86          for L in lens:
87              if n <= L + 1:
88                  break
89              s = x[n - L:]
90              W = np.lib.stride_tricks.sliding_window_view(x[:n - 1], L)
91              fol = x[L:n][:W.shape[0]]
92              tol = 1 if L >= 6 else 0
93              mis = (W != s).sum(axis=1)
94              ok = mis <= tol
95              if ok.any():
96                  w = (L ** 1.5) * np.where(mis[ok] == 0, 1.0, 0.4)
97                  np.add.at(votes, fol[ok], w)
98              mir = (W != ((k - 1) - s)).sum(axis=1)
99              ok2 = mir <= tol
100             if ok2.any():
101                 w2 = 0.5 * (L ** 1.5) * np.where(mir[ok2] == 0, 1.0, 0.4)
102                 np.add.at(votes, (k - 1) - fol[ok2], w2)
103         tot = votes.sum()
104         if tot <= 0:
105             return np.full(k, 1.0 / k)
106         return _norm((votes + 0.2 * tot / k) / (1.2 * tot))
107
108     def update(self, S, actual):
109         pass
110
111     def snap(self):
112         return None
113
114     def restore(self, s):
115         return True
116
117
118 class SideNgram:
119     """Geri çekilmeli n-gram geçiş tabloları (transition probability / matrix)."""
120     id = "py_side_ngram"
121     name = "N-gram yan"
122     MAXO = {"bs": 5, "oe": 5, "comb": 3}
123     LAM = 3.0
124
125     def __init__(self):
126         self.T = {ax: [np.zeros((KAX[ax] ** o, KAX[ax])) for o in range(0, self.MAXO[ax] + 1)] for ax in AXES}
127
128     @staticmethod
129     def _ctx(x, o, k):
130         idx = 0
131         for j in range(len(x) - o, len(x)):
```

[Dosya #70/84 — Devam] Proje Yolu: app/src/main/python/fan_side.py (Satır 132 ve sonrası)

```
132             idx = idx * k + int(x[j])
133         return idx
134 
135     def predict(self, S, regime=0):
136         out = {}
137         for ax in AXES:
138             k = KAX[ax]
139             x = S.seq(ax)
140             tabs = self.T[ax]
141             p = np.full(k, 1.0 / k)
142             for o in range(0, self.MAXO[ax] + 1):
143                 if len(x) < o:
144                     break
145                 c = tabs[o][self._ctx(x, o, k) if o else 0]
146                 tot = c.sum()
147                 p = (c + self.LAM * p) / (tot + self.LAM)
148             out[ax] = _norm(p)
149         return out
150 
151     def update(self, S, actual):
152         for ax in AXES:
153             k = KAX[ax]
154             x = S.seq(ax)
155             a = int(actual[ax])
156             for o in range(0, self.MAXO[ax] + 1):
157                 if len(x) < o:
158                     break
159                 self.T[ax][o][self._ctx(x, o, k) if o else 0, a] += 1.0
160 
161     def snap(self):
162         return {ax: [t.copy() for t in tabs] for ax, tabs in self.T.items()}
163 
164     def restore(self, s):
165         self.T = {ax: [t.copy() for t in tabs] for ax, tabs in s.items()}
166         return True
167 
168 
169 class SideLogit:
170     """Çevrimiçi lojistik/softmax regresyon. Seri uzunluğu yalnızca bir özelliktir."""
171     id = "py_side_logit"
172     name = "Lojistik yan"
173     F = 19
174     LR = 0.02
175     L2 = 1e-3
176 
177     def __init__(self):
178         self.w = {"bs": np.zeros(self.F), "oe": np.zeros(self.F), "comb": np.zeros((4, self.F))}
179         self._f = None
180         self._n = -1
181 
182     @staticmethod
183     def _run(x):
184         if not x:
185             return 0.0
186         r = 1
187         i = len(x) - 2
188         while i >= 0 and x[i] == x[-1]:
189             r += 1
190             i -= 1
191         return min(r, 8) / 8.0 * (1.0 if x[-1] == 1 else -1.0)
192 
193     @staticmethod
194     def _flip(x, w=30):
195         t = x[-w:]
196         if len(t) < 2:
197             return 0.0
198         return sum(1 for a, b in zip(t[:-1], t[1:]) if a != b) / (len(t) - 1) - 0.5
199 
200     @staticmethod
201     def _mean(x, w):
202         t = x[-w:]
203         return ((sum(t) / len(t)) - 0.5) * 2.0 if t else 0.0
204 
205     def feats(self, S):
206         f = np.zeros(self.F)
207         f[0] = 1.0
208         i = 1
209         for x in (S.bs, S.oe):
210             for j in range(1, 6):
211                 f[i] = (1.0 if x[-j] == 1 else -1.0) if len(x) >= j else 0.0
212                 i += 1
213         f[11] = self._run(S.bs)
214         f[12] = self._run(S.oe)
215         f[13] = self._mean(S.bs, 10)
216         f[14] = self._mean(S.bs, 30)
```

[Dosya #70/84 — Devam] Proje Yolu: app/src/main/python/fan_side.py (Satır 217 ve sonrası)

```
        f[15] = self._mean(S.oe, 10)
        f[16] = self._mean(S.oe, 30)
        f[17] = self._flip(S.bs)
        f[18] = self._flip(S.oe)
        return f

    def predict(self, S, regime=0):
        f = self.feats(S)
        self._f = f
        self._n = S.n
        out = {}
        for ax in ("bs", "oe"):
            z = float(np.clip(self.w[ax] @ f, -6, 6))
            p1 = 1.0 / (1.0 + math.exp(-z))
            out[ax] = _norm([1.0 - p1, p1])
        z = self.w["comb"] @ f
        e = np.exp(z - z.max())
        out["comb"] = _norm(e / e.sum())
        return out

    def update(self, S, actual):
        f = self._f if (self._f is not None and self._n == S.n) else self.feats(S)
        for ax in ("bs", "oe"):
            z = float(np.clip(self.w[ax] @ f, -6, 6))
            p1 = 1.0 / (1.0 + math.exp(-z))
            g = (p1 - int(actual[ax])) * f + self.L2 * self.w[ax]
            self.w[ax] = self.w[ax] - self.LR * g
        z = self.w["comb"] @ f
        e = np.exp(z - z.max())
        p = e / e.sum()
        y = np.zeros(4)
        y[int(actual["comb"])] = 1.0
        self.w["comb"] = self.w["comb"] - self.LR * (np.outer(p - y, f) + self.L2 * self.w["comb"])

    def snap(self):
        return {ax: w.copy() for ax, w in self.w.items()}

    def restore(self, s):
        self.w = {ax: w.copy() for ax, w in s.items()}
        self._f = None
        self._n = -1
        return True


class SideCouncil:
    """Üç yan üyesi + eksen başına Fixed-Share Hedge (Python Yan Analizi)."""

    ETA = 0.5
    ALPHA = 0.02

    def __init__(self):
        self.S = SideSeq()
        self.members = [SideKalip(), SideNgram(), SideLogit()]
        n = len(self.members)
        self.w = {ax: np.full(n, 1.0 / n) for ax in AXES}
        self.last = None       # son predict() çıktısı (üye bazında)
        self.last_mix = None

    def ids(self):
        return [m.id for m in self.members]

    def names(self):
        return [m.name for m in self.members]

    def predict(self, regime=0):
        per = []
        for m in self.members:
            try:
                d = m.predict(self.S, regime)
            except Exception:
                d = {ax: np.full(KAX[ax], 1.0 / KAX[ax]) for ax in AXES}
            per.append(d)
        mix = {}
        for ax in AXES:
            acc = np.zeros(KAX[ax])
            for i, d in enumerate(per):
                acc += self.w[ax][i] * d[ax]
            mix[ax] = _norm(acc / self.w[ax].sum())
        self.last = per
        self.last_mix = mix
        return per, mix

    def learn(self, bs, oe, t=0):
        """Gerçek sonucu öğren (önce predict() çağrılmış olmalı)."""
        if self.last is None:
```

[Dosya #70/84 — Devam] Proje Yolu: app/src/main/python/fan_side.py (Satır 302 ve sonrası)

```
            self.predict()
        actual = {"bs": int(bs), "oe": int(oe), "comb": int(bs) * 2 + int(oe)}
        for ax in AXES:
            n = len(self.members)
            fac = np.array([max(float(self.last[i][ax][actual[ax]]), 1e-9) for i in range(n)]) ** self.ETA
            w = self.w[ax] * fac
            s = w.sum()
            w = np.full(n, 1.0 / n) if (not np.isfinite(s) or s <= 0) else w / s
            self.w[ax] = (1 - self.ALPHA) * w + self.ALPHA / n
        for m in self.members:
            try:
                m.update(self.S, actual)
            except Exception:
                pass
        self.S.append(bs, oe, t)
        self.last = None

    def snap(self):
        return {"n": self.S.n, "w": {ax: w.copy() for ax, w in self.w.items()},
                "m": [m.snap() for m in self.members]}

    def restore(self, s):
        self.S.truncate(int(s["n"]))
        self.w = {ax: w.copy() for ax, w in s["w"].items()}
        for m, ms in zip(self.members, s["m"]):
            if ms is not None and not m.restore(ms):
                return False
        self.last = None
        return True


def pack(council, per, mix, digits=6):
    """JSON'a uygun, küçük çıktı biçimi."""
    def r(a):
        return [round(float(x), digits) for x in a]
    return {
        "members": [{"bs": r(d["bs"]), "oe": r(d["oe"]), "comb": r(d["comb"])} for d in per],
        "mix": {"bs": r(mix["bs"]), "oe": r(mix["oe"]), "comb": r(mix["comb"])},
    }
```

BÖLÜM 10: Birim Testleri — Kotlin (JUnit/Robolectric) ve Python (unittest)

9 Dosya · 1.558 Satır · 67.4 KB

Motor geri alma testleri, FAN LAB testleri, v1.4 Overlay içerik ve dokunma/yerleşim regresyon testleri, v1.3/v1.4 çekirdek/sızıntı/konformal/Room testleri ve Python meclisi testleri.

[Dosya #71/84] Proje Yolu: app/src/test/java/fan/superai/engine/FanEngineUndoTest.kt

BÖLÜM 10 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 10.215 B (10.0 KB) | Satır: 262 satır SHA-256: 4d2db9e9f93c458d0fa0c75dc168e601…

```kotlin
package fan.superai.engine

import org.junit.Assert.assertEquals
import org.junit.Assert.assertFalse
import org.junit.Assert.assertNotEquals
import org.junit.Assert.assertTrue
import org.junit.Test
import kotlin.random.Random

/**
 * Geri alma (undo) regresyon testleri — saf JVM (Android/Chaquopy gerekmez).
 *
 * Doğrulanan iki şey:
 *  1) DOĞRULUK: hızlı geri alma, tüm geçmişi baştan kurmakla BİREBİR aynı durumu verir
 *     (veri bozulmaz; tahmin, ağırlık ve başarı oranları kaymaz).
 *  2) HIZ: geri alma, tam yeniden kurmadan belirgin şekilde hızlıdır.
 */
class FanEngineUndoTest {

    /** Deterministik sahte Python meclisi: verilen hedefe tam olarak geri dönebilir. */
    private class FakePython : ExternalCouncil {
        val values = ArrayList<Int>()
        val targets = ArrayList<Int>()
        var undoCalls = 0
        var replayCalls = 0
        var failUndo = false

        private fun dist(): DoubleArray {
            val p = DoubleArray(K) { 0.25 }
            if (values.isNotEmpty()) {
                val last = values[values.size - 1]
                p[last] += 0.5
                p[(last + 1) % K] += 0.2
            }
            val s = p.sum()
            return DoubleArray(K) { p[it] / s }
        }

        override fun replay(values: IntArray, times: LongArray): Pair<List<DoubleArray>, DoubleArray> {
            replayCalls++
            this.values.clear()
            val per = ArrayList<DoubleArray>()
            for (i in values.indices) { per.add(dist()); this.values.add(values[i]) }
            return per to dist()
        }

        override fun step(value: Int, time: Long): DoubleArray {
            values.add(value)
            return dist()
        }

        override fun undoTo(count: Int): DoubleArray? {
            undoCalls++
            targets.add(count)
            if (failUndo || count < 0 || count > values.size) return null
            while (values.size > count) values.removeAt(values.size - 1)
            return dist()
        }

        override fun stats(): List<MemberStat> = listOf(
            MemberStat("fake", "Sahte", 0.25, 0.5, 1.0, false, true, values.size)
        )

        override fun info(): Map<String, String> = mapOf("n" to values.size.toString())
    }

    private fun data(n: Int, seed: Int = 42): IntArray {
        val r = Random(seed)
        return IntArray(n) { r.nextInt(4) }
    }

    private fun build(n: Int, py: ExternalCouncil?, vals: IntArray): FanEngine {
        val e = FanEngine(EngineConfig(silentFirst = 20), py)
        val t0 = 1700000000L
        for (i in 0 until n) { e.values.add(vals[i]); e.times.add(t0 + i) }
        e.replayPython()
```

[Dosya #71/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/engine/FanEngineUndoTest.kt (Satır 77 ve sonrası)

```
77          e.rebuildKotlin()
78          return e
79      }
80
81      /** Karşılaştırılabilir durum özeti: tahmin, hakem, üyeler, başarı, loglar. */
82      private fun fingerprint(e: FanEngine): List<Double> {
83          val st = e.state()
84          val out = ArrayList<Double>()
85          out.add(st.count.toDouble())
86          out.addAll(st.kotlinProbs.toList())
87          if (st.pythonProbs != null) out.addAll(st.pythonProbs!!.toList()) else out.addAll(List(K) { -1.0 })
88          val v = st.verdict
89          if (v != null) {
90              out.addAll(v.probs.toList())
91              out.add(v.primary.toDouble()); out.add((v.secondary ?: -1).toDouble())
92              out.add(v.confidence); out.add(v.oddProb); out.add(v.bigProb)
93              out.add(v.sideConfidence); out.add(v.weightK); out.add(v.weightP)
94          } else out.addAll(List(12) { -2.0 })
95          out.addAll(st.recent.map { it.toDouble() })
96          out.add(e.logs.size.toDouble())
97          st.kotlinStats.forEach { s ->
98              out.add(s.top1); out.add(s.top2); out.add(s.weight)
99              out.add(if (s.benched) 1.0 else 0.0); out.add(if (s.enabled) 1.0 else 0.0)
100         }
101         val sc = st.scores
102         out.addAll(listOf(sc.n.toDouble(), sc.top1, sc.top2, sc.sideAny, sc.sideBoth, sc.kTop1, sc.kTop2, sc.pTop1, sc.pTop2))
103         out.add(if (st.lastSideHit == true) 1.0 else if (st.lastSideHit == false) 0.0 else -1.0)
104         out.addAll(e.logs.takeLast(8).map { if (it.top1) 1.0 else 0.0 })
105         out.addAll(e.logs.takeLast(8).map { if (it.sideBoth) 1.0 else 0.0 })
106         return out
107     }
108
109     private fun text(e: FanEngine): String {
110         val st = e.state()
111         return st.kalipInfo.entries.sortedBy { it.key }.joinToString(";") { "${it.key}=${it.value}" } +
112             "|" + st.regime + "|" + (st.verdict?.label ?: "-") + "|" + (st.verdict?.sideLabel ?: "-")
113     }
114
115     private fun assertSameState(expected: FanEngine, actual: FanEngine, msg: String) {
116         val a = fingerprint(expected); val b = fingerprint(actual)
117         assertEquals("$msg: özet uzunluğu", a.size, b.size)
118         for (i in a.indices) assertEquals("$msg [$i]", a[i], b[i], 1e-9)
119         assertEquals("$msg: metin durumu", text(expected), text(actual))
120     }
121
122     @Test
123     fun undoRestoresExactStateAndIsFast() {
124         val n = 220
125         val vals = data(n)
126         val ref = build(n, FakePython(), vals)
127         val py = FakePython()
128         val e = build(n, py, vals)
129
130         val before = fingerprint(e)
131         val beforeText = text(e)
132
133         // Kullanıcı bir sayı girer, sonra "orijinal veri bozulmasın" diye geri alır.
134         e.add(2, 1700000000L + n)
135         assertNotEquals("ekleme durumu değiştirmeli", before, fingerprint(e))
136
137         val t0 = System.nanoTime()
138         assertTrue(e.undo())
139         val undoMs = (System.nanoTime() - t0) / 1_000_000L
140
141         assertTrue("hızlı geri alma yolu kullanılmalı", e.lastUndoFast)
142         assertEquals("kayıt sayısı", n, e.values.size)
143         assertSameState(ref, e, "hızlı geri alma")
144         assertEquals("durum birebir dönmeli", before, fingerprint(e))
145         assertEquals("metin durumu birebir dönmeli", beforeText, text(e))
146
147         assertTrue("python undo çağrılmalı", py.undoCalls > 0)
148         assertEquals("python hedefi kayıt sayısı olmalı", n, py.targets.last().toInt())
149         assertEquals("python kayıtları eşitlenmeli", n, py.values.size)
150         assertTrue("geri alma hızlı olmalı (${undoMs} ms)", undoMs < 3000)
151     }
152
153     @Test
154     fun undoIsMuchFasterThanFullRebuild() {
155         val n = 400
156         val vals = data(n, 7)
157         val e = build(n, FakePython(), vals)
158         e.add(3, 1700000000L + n)
159
160         val t0 = System.nanoTime()
161         assertTrue(e.undo())
```

[Dosya #71/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/engine/FanEngineUndoTest.kt (Satır 162 ve sonrası)

```
162         val undoNs = System.nanoTime() - t0
163         assertTrue("hızlı yol kullanılmalı", e.lastUndoFast)
164 
165         val t1 = System.nanoTime()
166         e.rebuildKotlin()
167         val rebuildNs = System.nanoTime() - t1
168 
169         assertTrue(
170             "undo (${undoNs / 1000} µs) tam yeniden kurmadan (${rebuildNs / 1000} µs) hızlı olmalı",
171             undoNs * 2 < rebuildNs
172         )
173     }
174 
175     @Test
176     fun addAfterUndoKeepsLearning() {
177         val n = 120
178         val vals = data(n, 11)
179         val ref = build(n + 1, FakePython(), vals + intArrayOf(1))
180         val e = build(n, FakePython(), vals)
181         e.add(1, 1700000000L + n)
182         assertTrue(e.undo())
183         e.add(1, 1700000000L + n)      // aynı sayı yeniden girilir
184         assertSameState(ref, e, "geri alma sonrası yeniden ekleme")
185     }
186 
187     @Test
188     fun repeatedUndoStaysExact() {
189         val n = 160
190         val vals = data(n, 3)
191         val e = build(n, FakePython(), vals)
192         val extra = intArrayOf(0, 1, 2, 3, 0, 2, 1, 3, 2, 0)
193         for (i in extra.indices) e.add(extra[i], 1700000000L + n + i)
194         assertEquals(n + extra.size, e.values.size)
195 
196         repeat(extra.size) { assertTrue("geri alma $it", e.undo()) }
197         assertSameState(build(n, FakePython(), vals), e, "10 ardışık geri alma")
198 
199         repeat(3) { assertTrue(e.undo()) }
200         assertEquals(n - 3, e.values.size)
201         assertSameState(build(n - 3, FakePython(), vals.copyOf(n - 3)), e, "13 ardışık geri alma")
202     }
203 
204     @Test
205     fun deepUndoBeyondJournalFallsBackCorrectly() {
206         val n = 200
207         val vals = data(n, 5)
208         val e = build(n, FakePython(), vals)
209         val deep = FanEngine.UNDO_DEPTH + 6
210         var sawSlow = false
211         repeat(deep) {
212             assertTrue("geri alma $it", e.undo())
213             if (!e.lastUndoFast) sawSlow = true
214         }
215         assertTrue("kayıt yığını bitince tam yeniden kurmaya düşmeli", sawSlow)
216         assertEquals(n - deep, e.values.size)
217         assertSameState(build(n - deep, FakePython(), vals.copyOf(n - deep)), e, "derin geri alma")
218     }
219 
220     @Test
221     fun pythonFailureStillRestoresExactly() {
222         val n = 100
223         val vals = data(n, 9)
224         val py = FakePython().apply { failUndo = true }
225         val e = build(n, py, vals)
226         e.add(2, 1700000000L + n)
227         assertTrue(e.undo())
228 
229         // Python geri alamadı ama KOTLIN meclisi yine anında ve TAM döndü; ekranda o adımda
230         // hesaplanmış Python tahmini kalır (yani kullanıcı hiç beklemez, veri bozulmaz).
231         assertTrue("kotlin tarafı hızlı yoldan dönmeli", e.lastUndoFast)
232         assertTrue("python geride kaldı işaretlenmeli", e.pyDirty)
233         assertEquals(n, e.values.size)
234         assertSameState(build(n, FakePython(), vals), e, "python hatasında geri alma")
235 
236         // Bir sonraki ekleme Python'u baştan öğrenip iki meclisi aynı adımda buluşturur.
237         py.failUndo = false
238         e.add(1, 1700000000L + n)
239         assertTrue("python yeniden öğrenilmeli", py.replayCalls > 0)
240         assertFalse(e.pyDirty)
241         assertEquals("iki meclis aynı adımda olmalı", e.values.size, py.values.size)
242         assertSameState(build(n + 1, FakePython(), vals + intArrayOf(1)), e, "python eşitlendikten sonra")
243     }
244 
245     @Test
246     fun withoutPythonUndoIsStillExact() {
```

[Dosya #71/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/engine/FanEngineUndoTest.kt (Satır 247 ve sonrası)

```kotlin
        val n = 60
        val vals = data(n, 13)
        val e = build(n, null, vals)          // Python meclisi hiç yok
        e.add(3, 1700000000L + n)
        assertTrue(e.undo())
        assertEquals(n, e.values.size)
        assertSameState(build(n, null, vals), e, "python'suz geri alma")
    }

    @Test
    fun undoOnEmptyHistoryIsNoOp() {
        val e = build(0, FakePython(), IntArray(0))
        assertFalse(e.undo())
        assertEquals(0, e.values.size)
    }
}
```

[Dosya #72/84] Proje Yolu: app/src/test/java/fan/superai/engine/ResearchLabTest.kt BÖLÜM 10 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 722 B (722 B) | Satır: 22 satır SHA-256: dd2e22fae7ec0c4abf18e087784f0c16…

```kotlin
package fan.superai.engine

import org.junit.Assert.assertEquals
import org.junit.Assert.assertTrue
import org.junit.Test

class ResearchLabTest {
    private fun logs(n: Int): List<StepLog> = (0 until n).map { i ->
        val a=i%4
        val p=DoubleArray(4){0.1}
        p[a]=0.7
        StepLog(true,true,true,true,true,true,true,true,true,true,a,p,p,p,listOf(p,p.copyOf(),p.copyOf()))
    }
    @Test fun metrics_are_finite() {
        val r=ResearchLab.analyze(logs(120), bootstrap=100, permutations=100)
        assertEquals(120,r.n)
        assertTrue(r.logLoss.isFinite())
        assertTrue(r.brier.isFinite())
        assertTrue(r.bootstrapLo<=r.bootstrapHi)
        assertTrue(r.walkForwardTop1>0.9)
    }
}
```

[Dosya #73/84] Proje Yolu: app/src/test/java/fan/superai/overlay/OverlayContentTest.kt BÖLÜM 10 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 6.491 B (6.3 KB) | Satır: 130 satır SHA-256: 0763d3ef7fe378ddc5e76bf6cc104ce4…

```kotlin
package fan.superai.overlay

import fan.superai.Echo
import fan.superai.engine.EngineState
import fan.superai.engine.Scores
import fan.superai.v13.FanBrain
import fan.superai.v13.Group
import fan.superai.v13.ModelOutput
import org.junit.Assert.*
import org.junit.Test

internal fun overlayTestState() = EngineState(
    count = 60, recent = listOf(2, 3, 1, 4, 2, 3), verdict = null,
    kotlinProbs = doubleArrayOf(.75, .125, .0625, .0625),
    pythonProbs = doubleArrayOf(.125, .125, .25, .5),
    kotlinStats = emptyList(), pythonStats = emptyList(), pythonInfo = emptyMap(), kalipInfo = emptyMap(),
    regime = "-", scores = Scores(0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0),
    lastSideHit = null, learning = false, busy = null
)

class OverlayContentTest {
    @Test fun numberAndSideComeFromTheSameCouncilDistribution() {
        val st = overlayTestState()
        assertEquals(CouncilPrediction("1/2", "%87", "T•K", "%84"), councilPrediction(st.kotlinProbs))
        assertEquals(CouncilPrediction("4/3", "%75", "Ç•B", "%68"), councilPrediction(st.pythonProbs))
    }

    @Test fun explicitSingleModeUsesOnlyTheFirstProbability() {
        assertEquals(CouncilPrediction("1", "%75", "T•K", "%84"),
            councilPrediction(overlayTestState().kotlinProbs, single = true))
    }

    @Test fun missingPythonNeverFallsBackToKotlinOrTheReferee() {
        assertEquals(CouncilPrediction(), councilPrediction(null))
    }

```

[Dosya #73/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/overlay/OverlayContentTest.kt (Satır 37 ve sonrası)

```
37      @Test fun allFourNumbersHaveCorrectParityAndSize() {
38          val sides = listOf("T•K", "Ç•K", "T•B", "Ç•B")
39          for (i in 0..3) {
40              val p = DoubleArray(4) { if (it == i) 1.0 else 0.0 }
41              val before = p.copyOf()
42              val display = councilPrediction(p, single = true)
43              assertEquals("${i + 1}", display.number)
44              assertEquals(sides[i], display.side)
45              assertEquals("%100", display.sideConfidence)
46              assertArrayEquals(before, p, 0.0) // Gösterim motor dağılımını değiştiremez.
47          }
48      }
49
50      @Test fun tiesHaveStableNumberAndSideOrdering() {
51          assertEquals(CouncilPrediction("1/2", "%50", "T•B", "%50"),
52              councilPrediction(DoubleArray(4) { .25 }))
53      }
54
55      // ---------------------------------------------------------------- v1.4
56
57      private fun finalWithGroups(pairMode: Int = 2) = FanBrain().predict(listOf(
58          ModelOutput("k_kalip2", "Kotlin · Kalıp", Group.KOTLIN, number = doubleArrayOf(.7, .1, .1, .1)),
59          ModelOutput("py_lstm", "Python · LSTM", Group.PYTHON, number = doubleArrayOf(.1, .1, .1, .7))
60      ), 1_700_000_000L, pairMode)
61
62      /** Üst iki satır meclislerin kendi grup karışımından gelir; Python yoksa satır "--" olur. */
63      @Test fun councilRowsComeFromEachGroupAndNeverFromTheReferee() {
64          val f = finalWithGroups(pairMode = 2)
65          assertEquals(CouncilPrediction("1", "%70", "T•K", "%80"), overlayKotlinRow(f))
66          assertEquals(CouncilPrediction("4", "%70", "Ç•B", "%80"), overlayPythonRow(f))
67          assertEquals(CouncilPrediction(), overlayPythonRow(FanBrain().predict(listOf(
68              ModelOutput("k_kalip2", "Kotlin · Kalıp", Group.KOTLIN, number = doubleArrayOf(.7, .1, .1, .1))
69          ), 1_700_000_000L, 2)))
70          assertEquals(CouncilPrediction(), overlayKotlinRow(null))
71          assertEquals(CouncilPrediction(), overlayPythonRow(null))
72      }
73
74      /** Nihai satır: tek/çift kararına göre "1" ya da "1/2" ve KISA yan (B•T), uzun "BÜYÜK + TEK" değil. */
75      @Test fun finalRowsUsePairNumberAndShortSide() {
76          val single = overlayFinal(finalWithGroups(pairMode = 2))
77          assertFalse(single.number.contains("/"))
78          assertEquals(finalWithGroups(pairMode = 2).sideShort, single.side)
79          assertTrue(listOf("B•T", "B•Ç", "K•T", "K•Ç").contains(single.side))
80          assertFalse(single.side.contains("+"))
81          val pair = overlayFinal(finalWithGroups(pairMode = 1))
82          assertTrue(pair.number.contains("/"))
83          assertEquals("1/4", pair.number)
84          assertEquals(CouncilPrediction(), overlayFinal(null))
85      }
86
87      /** Çift kararda meclis satırları iki aday gösterir; tek kararda yalnızca ilkini. */
88      @Test fun councilRowCandidateCountFollowsTheFinalPairDecision() {
89          val pair = finalWithGroups(pairMode = 1)
90          assertTrue(overlayKotlinRow(pair).number.contains("/"))
91          assertTrue(overlayPythonRow(pair).number.contains("/"))
92          val single = finalWithGroups(pairMode = 2)
93          assertFalse(overlayKotlinRow(single).number.contains("/"))
94          assertFalse(overlayPythonRow(single).number.contains("/"))
95      }
96
97      @Test fun emptyAndPartialHistoryDoNotInventRecords() {
98          assertTrue(overlayRecent(null, Echo(0, emptyList())).isEmpty())
99          assertEquals(listOf(3, 1), overlayRecent(null, Echo(0, listOf(1, 3))))
100         assertEquals(listOf(2, 1), overlayRecent(overlayTestState().copy(count = 2, recent = listOf(1, 2)), Echo(0, emptyList())
↳ ))
101     }
102
103     @Test fun partialEchoConsumptionDoesNotDuplicateRecords() {
104         val st = overlayTestState()
105         val echo = Echo(st.count, listOf(1, 4, 2))
106         val expected = listOf(2, 4, 1, 3, 2, 4)
107         assertEquals(expected, overlayRecent(st, echo))
108         assertEquals(expected, overlayRecent(st.copy(count = 61, recent = (st.recent + 1).takeLast(6)), echo))
109         assertEquals(expected, overlayRecent(st.copy(count = 62, recent = (st.recent + listOf(1, 4)).takeLast(6)), echo))
110         val done = st.copy(count = 63, recent = (st.recent + echo.values).takeLast(6))
111         assertEquals(expected, overlayRecent(done, echo))
112         assertEquals(expected, overlayRecent(done, Echo(done.count, emptyList())))
113         assertEquals(listOf(2, 3, 1, 4, 2, 3), st.recent)
114     }
115
116     @Test fun moreThanSixQueuedInputsStillShowExactlyTheLastSix() {
117         val st = overlayTestState()
118         val values = listOf(1, 1, 2, 3, 4, 4, 2, 1)
119         val echo = Echo(st.count, values.takeLast(6), pendingCount = values.size)
120         for (processed in 0..values.size) {
```

[Dosya #73/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/overlay/OverlayContentTest.kt (Satır 121 ve sonrası)

```
            val next = st.copy(count = st.count + processed, recent = (st.recent + values.take(processed)).takeLast(6))
            assertEquals(values.takeLast(6).asReversed(), overlayRecent(next, echo))
        }
    }

    @Test fun overlongHistoryIsAlwaysLimitedToSix() {
        val st = overlayTestState().copy(recent = listOf(1, 2, 3, 4, 1, 2, 3, 4))
        assertEquals(listOf(4, 3, 2, 1, 4, 3), overlayRecent(st, Echo(0, emptyList())))
    }
}
```

[Dosya #74/84] Proje Yolu: app/src/test/java/fan/superai/overlay/OverlayViewTest.kt BÖLÜM 10 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 15.484 B (15.1 KB) | Satır: 314 satır SHA-256: 74269d5bf14fb3a7e3e8046e7f31806f…

```
package fan.superai.overlay

import android.app.Activity
import android.app.Application
import android.os.Looper
import android.os.SystemClock
import android.view.MotionEvent
import android.view.View
import android.view.ViewConfiguration
import android.view.ViewGroup
import android.widget.TextView
import fan.superai.Echo
import fan.superai.data.AppSettings
import org.junit.After
import org.junit.Assert.*
import org.junit.Test
import org.junit.runner.RunWith
import org.robolectric.Robolectric
import org.robolectric.RobolectricTestRunner
import org.robolectric.RuntimeEnvironment
import org.robolectric.Shadows.shadowOf
import org.robolectric.annotation.Config
import org.robolectric.annotation.LooperMode
import java.time.Duration

@RunWith(RobolectricTestRunner::class)
@Config(sdk = [28], application = Application::class)
@LooperMode(LooperMode.Mode.PAUSED)
class OverlayViewTest {
    private val drags = mutableListOf<Pair<Int, Int>>()
    private val numbers = mutableListOf<Int>()
    private var deletes = 0
    private val activity = Robolectric.buildActivity(Activity::class.java).setup().visible()

    @After fun tearDown() {
        activity.pause().stop().destroy()
    }

    private fun overlay(horizontal: Boolean = false, recent: Boolean = true, scale: Float = 1f): OverlayView {
        return OverlayView(
            RuntimeEnvironment.getApplication(),
            AppSettings(overlayHorizontal = horizontal, showRecent = recent, overlayTextScale = scale),
            onNumber = { numbers += it }, onDelete = { deletes++ },
            onDrag = { dx, dy -> drags += dx to dy }
        ).apply {
            // Android posts click callbacks through the attached window. An unattached
            // view queues them until attachment, unlike the real service overlay.
            activity.get().setContentView(this, ViewGroup.LayoutParams(
                ViewGroup.LayoutParams.WRAP_CONTENT, ViewGroup.LayoutParams.WRAP_CONTENT))
            shadowOf(Looper.getMainLooper()).idle()
            measure(View.MeasureSpec.makeMeasureSpec(1200, View.MeasureSpec.AT_MOST),
                View.MeasureSpec.makeMeasureSpec(1200, View.MeasureSpec.AT_MOST))
            layout(0, 0, measuredWidth, measuredHeight)
        }
    }

    private fun descendants(view: View): List<View> = listOf(view) +
        if (view is ViewGroup) (0 until view.childCount).flatMap { descendants(view.getChildAt(it)) } else emptyList()

    private fun text(view: View, label: String): TextView = descendants(view)
        .filterIsInstance<TextView>().first { it.text.toString() == label }

    private fun center(root: View, target: View): Pair<Float, Float> {
        var x = target.width / 2f
        var y = target.height / 2f
        var child = target
        while (child !== root) {
            x += child.left; y += child.top
            child = child.parent as View
```

[Dosya #74/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/overlay/OverlayViewTest.kt (Satır 70 ve sonrası)

```
70          }
71          return x to y
72      }
73
74      private fun event(view: View, action: Int, point: Pair<Float, Float>, downTime: Long) {
75          val event = MotionEvent.obtain(downTime, SystemClock.uptimeMillis(), action, point.first, point.second, 0)
76          try { view.dispatchTouchEvent(event) } finally { event.recycle() }
77      }
78
79      private fun drag(view: OverlayView, point: Pair<Float, Float>) {
80          val time = SystemClock.uptimeMillis()
81          event(view, MotionEvent.ACTION_DOWN, point, time)
82          event(view, MotionEvent.ACTION_MOVE, point.first + 40f to point.second + 25f, time)
83          event(view, MotionEvent.ACTION_UP, point.first + 40f to point.second + 25f, time)
84      }
85
86      @Test fun predictionRowsDragInBothLayouts() {
87          for (horizontal in listOf(false, true)) {
88              for (recent in listOf(false, true)) {
89                  val view = overlay(horizontal, recent)
90                  for (label in listOf("K", "Py", "YAN", "RAKAM")) {
91                      drags.clear()
92                      drag(view, center(view, text(view, label)))
93                      assertEquals(listOf(40 to 25), drags)
94                  }
95              }
96          }
97      }
98
99      @Test fun recentNumbersAndCardPaddingDrag() {
100         for (horizontal in listOf(false, true)) {
101             val view = overlay(horizontal)
102             drags.clear()
103             drag(view, center(view, text(view, "- - - - - -")))
104             assertEquals(listOf(40 to 25), drags)
105             drags.clear()
106             drag(view, 1f to 1f)
107             assertEquals(listOf(40 to 25), drags)
108         }
109     }
110
111     @Test fun tapsStillEnterNumbersAndDeleteWithoutDragging() {
112         for (horizontal in listOf(false, true)) {
113             val view = overlay(horizontal)
114             for (label in listOf("4", "3", "2", "1", if (horizontal) "⌫" else "DEL")) {
115                 val point = center(view, text(view, label))
116                 val time = SystemClock.uptimeMillis()
117                 event(view, MotionEvent.ACTION_DOWN, point, time)
118                 event(view, MotionEvent.ACTION_UP, point, time)
119                 shadowOf(Looper.getMainLooper()).idle()
120             }
121         }
122         assertEquals(listOf(4, 3, 2, 1, 4, 3, 2, 1), numbers)
123         assertEquals(2, deletes)
124         assertTrue(drags.isEmpty())
125     }
126
127     @Test fun longPressKeepsOnlyFourPredictionsAndStillAllowsDragging() {
128         val view = overlay()
129         val before = descendants(view).size
130         val point = center(view, text(view, "RAKAM"))
131         val time = SystemClock.uptimeMillis()
132         event(view, MotionEvent.ACTION_DOWN, point, time)
133         shadowOf(Looper.getMainLooper()).idleFor(Duration.ofMillis(ViewConfiguration.getLongPressTimeout().toLong() + 1))
134         event(view, MotionEvent.ACTION_MOVE, point.first + 40f to point.second + 25f, time)
135         event(view, MotionEvent.ACTION_UP, point.first + 40f to point.second + 25f, time)
136         assertEquals(before, descendants(view).size)
137         assertEquals(listOf(40 to 25), drags)
138         val labels = descendants(view).filterIsInstance<TextView>().map { it.text.toString() }
139         assertFalse(labels.any { it.contains("Kalıp") || it.contains("Hakem") || it.contains("FAN") })
140         assertTrue(numbers.isEmpty())
141         assertEquals(0, deletes)
142     }
143
144     @Test fun cancelledTouchDoesNotCarryPositionIntoNextDrag() {
145         val view = overlay()
146         val point = center(view, text(view, "RAKAM"))
147         val time = SystemClock.uptimeMillis()
148         event(view, MotionEvent.ACTION_DOWN, point, time)
149         event(view, MotionEvent.ACTION_CANCEL, point, time)
150         drag(view, point.first + 2f to point.second + 2f)
151         assertEquals(listOf(40 to 25), drags)
152     }
153
154     /**
```

[Dosya #74/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/overlay/OverlayViewTest.kt (Satır 155 ve sonrası)

```
155      * Veri girişi düğmeleri her zaman kartın içinde kalmalı: yatay kart dar ekranda
156      * ekran genişliğini aştığında sağdaki düğmeler ekran dışında kalıyordu.
157      */
158     @Test fun allDataButtonsStayInsideTheCard() {
159         for (horizontal in listOf(false, true)) {
160             val view = overlay(horizontal)
161             val cardWidth = view.width
162             assertTrue("kart ölçülmeli", cardWidth > 0)
163             for (label in listOf("4", "3", "2", "1", if (horizontal) "⌫" else "DEL")) {
164                 val b = text(view, label)
165                 val p = center(view, b)
166                 assertTrue("$label kart içinde olmalı (x=${p.first}, kart=$cardWidth)",
167                     p.first >= 0f && p.first <= cardWidth.toFloat())
168                 assertTrue("$label dokunulabilir olmalı (genişlik=${b.width}, yükseklik=${b.height})",
169                     b.width >= 12 && b.height >= 20)
170             }
171         }
172     }
173
174     private fun tagged(view: View, tag: String): TextView = descendants(view)
175         .filterIsInstance<TextView>().first { it.tag == tag }
176
177     /** v1.4 kilitli tahmin örneği: bir Kotlin, bir Python rakam modeli (her zaman tek karar). */
178     private fun testFinal(pairMode: Int = 2): fan.superai.v13.FinalPrediction =
179         fan.superai.v13.FanBrain().predict(listOf(
180             fan.superai.v13.ModelOutput("k_kalip2", "Kotlin · Kalıp",
181                 fan.superai.v13.Group.KOTLIN, number = doubleArrayOf(.7, .1, .1, .1)),
182             fan.superai.v13.ModelOutput("py_lstm", "Python · LSTM",
183                 fan.superai.v13.Group.PYTHON, number = doubleArrayOf(.1, .1, .1, .7))
184         ), 1_700_000_000L, pairMode)
185
186     /** v1.4 dört satır: K → Py → YAN (kısa) → RAKAM (nihai). */
187     @Test fun fourRowsShowCouncilsThenCompactSideAndFinalNumber() {
188         for (horizontal in listOf(false, true)) {
189             val view = overlay(horizontal)
190             val f = testFinal()
191             view.update(overlayTestState(), null, Echo(0, emptyList()), f)
192             assertEquals("1", tagged(view, "kotlin.number.value").text.toString())
193             assertEquals("%70", tagged(view, "kotlin.number.confidence").text.toString())
194             assertEquals("4", tagged(view, "python.number.value").text.toString())
195             assertEquals("%70", tagged(view, "python.number.confidence").text.toString())
196             assertEquals(f.sideShort, tagged(view, "final.side.value").text.toString())
197             assertEquals("%${(f.sideConfidence * 100).toInt()}", tagged(view, "final.side.confidence").text.toString())
198             assertEquals(f.numberLabel, tagged(view, "final.number.value").text.toString())
199             assertEquals("%${(f.confidence * 100).toInt()}", tagged(view, "final.number.confidence").text.toString())
200             // Yan satırı artık uzun "BÜYÜK + TEK" yazmaz; K/Py satırları kendi meclisinden gelir.
201             val labels = descendants(view).filterIsInstance<TextView>().map { it.text.toString() }
202             assertFalse(labels.any { it.contains("BÜYÜK") || it.contains("+") })
203             assertFalse(labels.any { it.contains("Kalıp") || it.contains("Hakem") })
204         }
205     }
206
207     @Test fun rowOrderIsKotlinPythonSideThenFinal() {
208         val view = overlay()
209         val y = { label: String -> center(view, text(view, label)).second }
210         assertTrue("K en üstte", y("K") < y("Py"))
211         assertTrue("Py, YAN'ın üstünde", y("Py") < y("YAN"))
212         assertTrue("YAN, RAKAM'ın üstünde", y("YAN") < y("RAKAM"))
213         assertTrue("RAKAM, son sayıların üstünde", y("RAKAM") < center(view, tagged(view, "recent")).second)
214     }
215
216     /** Çift kararda nihai rakam satırı iki adayı gösterir. */
217     @Test fun pairDecisionShowsTwoCandidatesInTheFinalRow() {
218         val view = overlay()
219         val f = testFinal(pairMode = 1)
220         assertNotNull(f.numberSecondary)
221         view.update(overlayTestState(), null, Echo(0, emptyList()), f)
222         assertEquals("1/4", tagged(view, "final.number.value").text.toString())
223     }
224
225     @Test fun missingFinalAndResetClearOldPredictions() {
226         val view = overlay()
227         view.update(overlayTestState(), null, Echo(0, emptyList()), testFinal())
228         view.update(null, null)
229         for (key in listOf("kotlin.number", "python.number", "final.number", "final.side")) {
230             assertEquals("--", tagged(view, "$key.value").text.toString())
231             assertEquals("--", tagged(view, "$key.confidence").text.toString())
232         }
233     }
234
235     @Test fun recentSixAreNewestFirstInBothLayoutsBeforeAndAfterMotorCatchesUp() {
236         for (horizontal in listOf(false, true)) {
237             val view = overlay(horizontal)
238             val st = overlayTestState()
239             view.update(st, null)
```

[Dosya #74/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/overlay/OverlayViewTest.kt (Satır 240 ve sonrası)

```
240             assertEquals("3 2 4 1 3 2", tagged(view, "recent").text.toString())
241             val echo = Echo(st.count, listOf(1))
242             view.update(st, "Hesaplanıyor", echo)
243             assertEquals("1 3 2 4 1 3", tagged(view, "recent").text.toString())
244             val next = st.copy(count = st.count + 1, recent = (st.recent + 1).takeLast(6))
245             view.update(next, null, echo)
246             assertEquals("1 3 2 4 1 3", tagged(view, "recent").text.toString())
247             view.update(next, null)
248             assertEquals("1 3 2 4 1 3", tagged(view, "recent").text.toString())
249             // DEL motoru önceki duruma döndürdüğünde soldaki en yeni sayı kalkar.
250             view.update(st, null)
251             assertEquals("3 2 4 1 3 2", tagged(view, "recent").text.toString())
252         }
253     }
254
255     @Test fun learningKeepsInputAvailable() {
256         val view = overlay()
257         view.update(overlayTestState().copy(count = 12, learning = true), null, Echo(0, emptyList()), testFinal())
258         for (key in listOf("kotlin.number", "python.number", "final.number", "final.side")) {
259             assertEquals("…", tagged(view, "$key.value").text.toString())
260         }
261         assertEquals("12/50", tagged(view, "final.number.confidence").text.toString())
262         assertTrue(text(view, "1").isEnabled)
263         assertTrue(text(view, "DEL").isEnabled)
264     }
265
266     @Test fun approvedVerticalLayoutHasRecentThenFullWidthStackedButtons() {
267         val view = overlay()
268         val recentY = center(view, tagged(view, "recent")).second
269         val buttons = listOf("DEL", "4", "3", "2", "1").map { text(view, it) }
270         assertTrue(center(view, buttons.first()).second > recentY)
271         buttons.zipWithNext().forEach { (a, b) ->
272             assertTrue(center(view, a).second < center(view, b).second)
273             assertEquals(a.width, b.width)
274             assertEquals(center(view, a).first, center(view, b).first, 0.01f)
275         }
276         assertEquals(view.width - view.paddingLeft - view.paddingRight, buttons.first().width)
277     }
278
279     @Test fun buttonBoundsFitAfterShortScreenRemeasureAtEveryTextScale() {
280         for (scale in listOf(.85f, 1f, 1.2f)) {
281             val view = overlay(scale = scale)
282             val density = view.resources.displayMetrics.density
283             val maxHeight = (300 * density).toInt()
284             view.measure(View.MeasureSpec.makeMeasureSpec((320 * density).toInt(), View.MeasureSpec.AT_MOST),
285                 View.MeasureSpec.makeMeasureSpec(maxHeight, View.MeasureSpec.AT_MOST))
286             view.layout(0, 0, view.measuredWidth, view.measuredHeight)
287             assertTrue(view.height <= maxHeight)
288             for (label in listOf("DEL", "4", "3", "2", "1")) {
289                 val button = text(view, label)
290                 val c = center(view, button)
291                 assertTrue("$label üst sınır", c.second - button.height / 2f >= 0)
292                 assertTrue("$label alt sınır", c.second + button.height / 2f <= view.height)
293                 assertTrue("$label dokunma alanı: scale=$scale density=$density " +
294                     "scaledDensity=${view.resources.displayMetrics.scaledDensity} " +
295                     "screen=${view.resources.displayMetrics.heightPixels} card=${view.height} " +
296                     "button=${button.height} children=" +
297                     (0 until view.childCount).joinToString { "${view.getChildAt(it).height}" },
298                     button.height >= 20 * density)
299             }
300         }
301     }
302
303     /** Kart ekran dışına sürüklenirse konum ekran içine kıstırılmalı. */
304     @Test fun overlayPositionIsClampedToScreen() {
305         val a = clampOverlayPos(5000, -200, 300, 120, 1080, 1920)
306         assertEquals(780, a[0]); assertEquals(0, a[1])
307         val b = clampOverlayPos(-50, 4000, 300, 120, 1080, 1920)
308         assertEquals(0, b[0]); assertEquals(1800, b[1])
309         val c = clampOverlayPos(10, 20, 2000, 3000, 1080, 1920)   // kart ekrandan büyük
310         assertEquals(0, c[0]); assertEquals(0, c[1])
311         val d = clampOverlayPos(40, 240, 300, 120, 1080, 1920)    // zaten içeride
312         assertEquals(40, d[0]); assertEquals(240, d[1])
313     }
314 }
```

[Dosya #75/84] Proje Yolu: app/src/test/java/fan/superai/v13/V13CoreTest.kt

BÖLÜM 10 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 10.909 B (10.7 KB) | Satır: 237 satır SHA-256: 6d94231c20b9a39d138886f2c5b83af2…

```
1 package fan.superai.v13
2
3 import fan.superai.engine.EngineConfig
4 import org.junit.Assert.assertEquals
```

[Dosya #75/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/v13/V13CoreTest.kt (Satır 5 ve sonrası)

```
5  import org.junit.Assert.assertFalse
6  import org.junit.Assert.assertNotEquals
7  import org.junit.Assert.assertNotNull
8  import org.junit.Assert.assertNull
9  import org.junit.Assert.assertTrue
10 import org.junit.Test
11 import kotlin.random.Random
12
13 /** v1.3 çekirdek testleri — saf JVM. Doğruluk iddia edilmez (gerçek veri neredeyse rastgele); yalnızca davranış sözleşmeleri. *
   ↳ /
14 class V13CoreTest {
15     private val cfg = EngineConfig()
16
17     private fun records(n: Int, seed: Int = 1, from: Int = 0): List<FanRecord> {
18         val r = Random(seed)
19         return List(n) { FanRecord.of((from + it + 1).toLong(), 1_700_000_000L + (from + it) * 20L, 1 + r.nextInt(4)) }
20     }
21
22     private fun run(recs: List<FanRecord>, brain: FanBrain = FanBrain(), startAt: Int = 0, ctx: Boolean = false) =
23         ReplayEngine.run(recs, brain, cfg, null, startAt = startAt, keepContext = ctx)
24
25     private fun sum(a: DoubleArray) = a.sum()
26
27     @Test fun numberAlwaysInRangeAndSingleDistribution() {
28         val res = run(records(120))
29         assertEquals(120, res.steps.size)
30         for (s in res.steps) {
31             assertTrue(s.predNumber in 1..4)
32             assertEquals(4, s.numberProbs.size)
33             assertEquals(1.0, sum(s.numberProbs), 1e-6)
34             assertEquals(1.0, sum(s.joint), 1e-6)
35             assertEquals(1.0, sum(s.bsProbs), 1e-6)
36             assertEquals(1.0, sum(s.oeProbs), 1e-6)
37             assertEquals(s.joint[0] + s.joint[1], s.bsProbs[0], 1e-6)
38             assertEquals(s.joint[0] + s.joint[2], s.oeProbs[0], 1e-6)
39         }
40     }
41
42     @Test fun sideHasTwoComponentsAndIsNotDerivedFromNumber() {
43         val brain = FanBrain()
44         run(records(60), brain)
45         val p = brain.predict(emptyList(), 1_800_000_000L)
46         assertNotNull(p.bigSmall); assertNotNull(p.oddEven)
47         assertEquals(CombinedSide.of(p.bigSmall, p.oddEven), p.side)
48         // yan modeller rakam girdisi olmadan da çalışır (rakamdan türetilmez)
49         assertTrue(p.contributions.any { it.axis == Axis.BS })
50         assertTrue(p.contributions.any { it.axis == Axis.OE })
51         assertTrue(p.explanation.sideDetail.isNotEmpty())
52     }
53
54     @Test fun predictionLockIsStableAndSurvivesSnapshotRestore() {
55         val brain = FanBrain()
56         run(records(80), brain)
57         val a = brain.predict(emptyList(), 1_800_000_000L)
58         val b = brain.predict(emptyList(), 1_800_000_999L)
59         assertTrue("kilit açıkken aynı tahmin dönmeli", a === b)
60         val copy = FanBrain()
61         copy.restore(brain.snapshot())
62         val c = copy.open!!.prediction
63         assertEquals(a.predictionLockId, c.predictionLockId)
64         assertEquals(a.lockHash, c.lockHash)
65         assertEquals(a.number, c.number)
66         assertEquals(a.side, c.side)
67     }
68
69     @Test fun leakageFuturePrefixInvariance() {
70         val n = 90
71         val base = records(130, seed = 5)
72         val altered = base.take(n) + records(40, seed = 99, from = n)
73         val r1 = run(base); val r2 = run(altered)
74         assertEquals(0L, r1.leakViolations)
75         for (i in 0 until n) {
76             assertEquals("adım $i gelecekten etkilendi", r1.steps[i].lockId, r2.steps[i].lockId)
77         }
78         // Gelecek gerçekten farklıysa sonrası da farklılaşabilir (testin anlamlı olması için)
79         assertTrue((n until 130).any { r1.steps[it].lockId != r2.steps[it].lockId })
80     }
81
82     @Test fun replayOrderAndMetadataAreChronological() {
83         val recs = records(100)
84         val res = run(recs)
85         assertTrue(res.orderOk)
86         assertEquals(0L, res.leakViolations)
87         assertTrue(res.leakChecks > 0)
88         for ((i, s) in res.steps.withIndex()) {
```

[Dosya #75/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/v13/V13CoreTest.kt (Satır 89 ve sonrası)

```
            assertEquals(i, s.sequence)
            assertEquals(if (i == 0) 0L else recs[i - 1].recordId, s.lastKnownRecordId)
            assertTrue(s.predictionTimestamp <= s.timestamp)
        }
        val shuffled = recs.take(10).reversed() + recs.drop(10)
        assertFalse(run(shuffled).orderOk)
    }

    @Test fun replayIsReproducible() {
        val recs = records(110, seed = 3)
        val a = run(recs); val b = run(recs)
        assertEquals(a.steps.map { it.lockId }, b.steps.map { it.lockId })
        assertEquals(a.steps.map { it.ev.numberHit }, b.steps.map { it.ev.numberHit })
    }

    @Test fun incrementalMatchesFullReplay() {
        val recs = records(120, seed = 11)
        val full = run(recs)
        val brain = FanBrain()
        run(recs.take(70), brain)
        val tail = run(recs, brain, startAt = 70)
        assertEquals(50, tail.steps.size)
        for (i in 0 until 50) assertEquals(full.steps[70 + i].lockId, tail.steps[i].lockId)
    }

    @Test fun persistedStateContinuesIdentically() {
        val recs = records(130, seed = 21)
        val a = FanBrain(); run(recs.take(80), a)
        val parts = a.exportParts()
        val b = FanBrain(); b.importParts(parts.associate { it.full to it.bytes })
        assertEquals(80, b.count)
        // a'nın kilidi kayıttan sonra aynı yeniden üretilmeli
        a.predict(emptyList(), 1_800_000_000L)
        val b2 = FanBrain(); b2.importParts(a.exportParts().associate { it.full to it.bytes })
        assertEquals(a.open!!.prediction.predictionLockId, b2.open!!.prediction.predictionLockId)
        val ra = run(recs, a, startAt = 80); val rb = run(recs, b2, startAt = 80)
        assertEquals(ra.steps.map { it.lockId }, rb.steps.map { it.lockId })
    }

    @Test fun undoRestoresSameLockedPrediction() {
        val recs = records(60, seed = 8)
        val brain = FanBrain()
        brain.recordUndo = true
        var lockAt59: String? = null
        for ((i, r) in recs.withIndex()) {
            val p = brain.predict(emptyList(), r.timestamp - 1)
            if (i == 59) lockAt59 = p.predictionLockId
            brain.onActual(r)
        }
        assertTrue(brain.undoTo(59))
        assertEquals(59, brain.count)
        assertEquals(lockAt59, brain.open!!.prediction.predictionLockId)
    }

    @Test fun counterfactualDoesNotChangeLiveState() {
        val brain = FanBrain()
        val res = run(records(100), brain, ctx = true)
        val ctx = res.steps.last().ctx!!
        val before = brain.snapshot()
        val out = Counterfactual.runAll(brain.alphabet, ctx)
        assertTrue(out.size >= 4)
        assertEquals("Normal ensemble", out[0].scenario)
        assertFalse(out[0].numberChanged)
        assertTrue(before.contentEquals(brain.snapshot()))
        assertTrue(out.all { it.number in 1..4 })
    }

    @Test fun bootstrapAndPermutationAreSane() {
        val res = run(records(200, seed = 2))
        val sum = ReplayStats.summarize(res, skip = 50, bootstrap = 200, permutations = 200)
        assertEquals(150, sum.n)
        for (m in sum.metrics) { assertTrue(m.lo <= m.hi); assertTrue(m.value >= m.lo - 0.1 && m.value <= m.hi + 0.1) }
        for (p in sum.permutations) assertTrue(p.pValue > 0.0 && p.pValue <= 1.0)
        assertEquals(4, sum.permutations.size)
        assertEquals(0.25, sum.metrics.first { it.name == "Rakam Top-1" }.baseline, 1e-9)
        assertEquals(0.5, sum.metrics.first { it.name == "Büyük/Küçük" }.baseline, 1e-9)
    }

    @Test fun regimesAreNamedAndPerformanceTracked() {
        val brain = FanBrain()
        run(records(160), brain)
        assertTrue(brain.regime.name() in V13.REGIME_NAMES)
        assertEquals(160, brain.stats.total)
        assertTrue(brain.ens[Axis.NUMBER.ordinal].rows().isNotEmpty())
        assertTrue(brain.guard.violations == 0L)
```

[Dosya #75/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/v13/V13CoreTest.kt (Satır 174 ve sonrası)

```
174     }
175
176     // ---------------------------------------------------------------- v1.4: tek/çift (pairMode)
177
178     @Test fun pairModeControlsHowManyCandidatesAreShown() {
179         val brain = FanBrain()
180         run(records(120, seed = 31), brain)
181         // Açık kilit varken aynı tahmin döner: her mod için ayrı beyin.
182         val single = FanBrain(); run(records(120, seed = 31), single)
183         val p2 = single.predict(emptyList(), 1_800_000_000L, 2)
184         assertNull("her zaman tek", p2.numberSecondary)
185         assertEquals("${p2.number}", p2.numberLabel)
186         val pair = FanBrain(); run(records(120, seed = 31), pair)
187         val p1 = pair.predict(emptyList(), 1_800_000_000L, 1)
188         assertNotNull("her zaman çift", p1.numberSecondary)
189         assertEquals("${p1.number}/${p1.numberSecondary}", p1.numberLabel)
190         assertNotEquals(p1.number, p1.numberSecondary)
191     }
192
193     @Test fun automaticPairModeUsesConformalScores() {
194         val brain = FanBrain()
195         run(records(140, seed = 12), brain)
196         assertTrue("değerlendirmeler konformal skor üretmeli", brain.stats.pairScores.count >= 30)
197         val auto = FanBrain(); run(records(140, seed = 12), auto)
198         val p = auto.predict(emptyList(), 1_800_000_000L, 0)
199         // Otomatik karar, tek/çift seçeneklerinden biri olmalı ve skorlarla tutarlı olmalı.
200         val single = p.numberSecondary == null
201         val scores = auto.stats.pairScores.values().sorted()
202         val q = scores[(scores.size * 0.5).toInt().coerceAtMost(scores.size - 1)]
203         val conformalSingle = (0..3).count { 1 - p.numberDistribution.probabilities[it] <= q } <= 1
204         assertEquals("otomatik karar konformal kurala uymalı", conformalSingle, single)
205     }
206
207     @Test fun groupNumberMixesFeedTheOverlayRows() {
208         val brain = FanBrain()
209         val f = brain.predict(listOf(
210             ModelOutput("k_a", "Kotlin · a", Group.KOTLIN, number = doubleArrayOf(.6, .2, .1, .1)),
211             ModelOutput("p_a", "Python · a", Group.PYTHON, number = doubleArrayOf(.1, .1, .2, .6))
212         ), 1_800_000_000L, 2)
213         assertEquals(4, f.kotlinNumberProbs!!.size)
214         assertEquals(1.0, f.kotlinNumberProbs!!.sum(), 1e-9)
215         assertEquals(1.0, f.pythonNumberProbs!!.sum(), 1e-9)
216         assertEquals(0, fan.superai.v13.Mx.argmax(f.kotlinNumberProbs!!))
217         assertEquals(3, fan.superai.v13.Mx.argmax(f.pythonNumberProbs!!))
218         // Python modeli yoksa satır null kalır (overlay "--" gösterir), Kotlin'e kopyalanmaz.
219         val kOnly = FanBrain().predict(listOf(
220             ModelOutput("k_a", "Kotlin · a", Group.KOTLIN, number = doubleArrayOf(.6, .2, .1, .1))
221         ), 1_800_000_000L, 2)
222         assertNotNull(kOnly.kotlinNumberProbs)
223         assertNull(kOnly.pythonNumberProbs)
224     }
225
226     @Test fun explanationIsBuiltFromRealComputation() {
227         val brain = FanBrain()
228         run(records(100), brain)
229         val p = brain.predict(emptyList(), 1_800_000_000L)
230         val e = p.explanation
231         assertTrue(e.sideDetail.any { it.contains("Birleşik") })
232         assertTrue(e.numberPositive.size + e.numberNegative.size > 0)
233         // Aynı kilit geri yüklenince aynı metin
234         val copy = FanBrain(); copy.restore(brain.snapshot())
235         assertEquals(e.toText(), copy.open!!.prediction.explanation.toText())
236     }
237 }
```

[Dosya #76/84] Proje Yolu: app/src/test/java/fan/superai/v13/V13RuntimeTest.kt BÖLÜM 10 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 5.392 B (5.3 KB) | Satır: 121 satır SHA-256: 6eb089cb7140e1bdbe55b3b784a223cc…

```
1  package fan.superai.v13
2
3  import android.app.Application
4  import fan.superai.engine.EngineConfig
5  import fan.superai.engine.FanEngine
6  import fan.superai.v13.db.FanDatabase
7  import fan.superai.v13.db.V13Store
8  import org.junit.After
9  import org.junit.Assert.assertEquals
10 import org.junit.Assert.assertNotNull
11 import org.junit.Assert.assertNull
12 import org.junit.Assert.assertTrue
13 import org.junit.Before
14 import org.junit.Test
15 import org.junit.runner.RunWith
```

[Dosya #76/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/v13/V13RuntimeTest.kt (Satır 16 ve sonrası)

```
16  import org.robolectric.RobolectricTestRunner
17  import org.robolectric.RuntimeEnvironment
18  import org.robolectric.annotation.Config
19  import kotlin.random.Random
20
21  /** Uçtan uca yaşam döngüsü: ilk kurulum → canlı ekleme → geri alma → yeniden başlatma (yalnızca yeni kayıtlar). Python yok. */
22  @RunWith(RobolectricTestRunner::class)
23  @Config(sdk = [28], application = Application::class)
24  class V13RuntimeTest {
25      private lateinit var db: FanDatabase
26      private lateinit var store: V13Store
27      private val recs = ArrayList<FanRecord>()
28
29      @Before fun setUp() {
30          db = FanDatabase.inMemory(RuntimeEnvironment.getApplication())
31          store = V13Store(db)
32          val r = Random(7)
33          repeat(120) { recs.add(FanRecord.of((it + 1).toLong(), 1_700_000_000L + it * 20L, 1 + r.nextInt(4))) }
34      }
35
36      @After fun tearDown() { db.close() }
37
38      private fun engine(): FanEngine {
39          val e = FanEngine(EngineConfig(), null)
40          recs.forEach { e.values.add(it.number - 1); e.times.add(it.timestamp) }
41          e.rebuildAll()
42          return e
43      }
44
45      private fun clock() = recs.last().timestamp + 1
46
47      @Test fun fullLifecycle() {
48          val engine = engine()
49          val env = V13Env(engine, null, engine.cfg) { recs.toList() }
50          val rt = V13Runtime(store) { clock() }
51          val plan = rt.prepare(recs.toList())
52          assertEquals("FULL", plan.kind)
53          rt.finish(plan, env)
54          assertEquals(rt.status.value.error, "READY", rt.status.value.phase)
55          val first = rt.final.value
56          assertNotNull(first)
57          assertEquals(120, first!!.predictionSequence)
58          assertTrue(first.number in 1..4)
59          assertEquals(121, store.predictionTotal())          // 120 replay + 1 canlı kilit
60          assertNotNull(rt.insights.value)
61          assertEquals(120, rt.insights.value!!.stats.total)
62
63          // canlı ekleme: kilitli tahmin değerlendirilir, yenisi kilitlenir
64          val rec = FanRecord.of(121, recs.last().timestamp + 20, 3)
65          recs.add(rec)
66          engine.add(rec.number - 1, rec.timestamp)
67          rt.onNewRecord(rec, env)
68          assertEquals(rt.status.value.error, "READY", rt.status.value.phase)
69          val second = rt.final.value!!
70          assertEquals(121, second.predictionSequence)
71          assertEquals(122, store.predictionTotal())
72          val evaluated = store.page(0, 5).first { it.sequence == 120 }
73          assertEquals(3, evaluated.actualNumber)
74          assertEquals(first.predictionLockId, evaluated.lockId)   // değerlendirilen, KİLİTLİ olan tahmin
75          assertEquals(121, rt.insights.value!!.stats.total)
76
77          // geri alma: aynı kilitli tahmin geri gelir, sonuç sıfırlanır
78          engine.undo(); recs.removeAt(recs.size - 1)
79          rt.onUndo(recs.size, env)
80          assertEquals(rt.status.value.error, "READY", rt.status.value.phase)
81          assertEquals(first.predictionLockId, rt.final.value!!.predictionLockId)
82          assertEquals(121, store.predictionTotal())
83          assertNull(store.page(0, 1).first().actualNumber)
84
85          // yeniden başlatma: durum güncel → yalnızca devam, aynı kilit
86          val rt2 = V13Runtime(store) { clock() }
87          val plan2 = rt2.prepare(recs.toList())
88          assertEquals("RESUME", plan2.kind)
89          rt2.finish(plan2, V13Env(engine, null, engine.cfg) { recs.toList() })
90          assertEquals(first.predictionLockId, rt2.final.value!!.predictionLockId)
91
92          // uygulama kapalıyken 3 yeni kayıt → yalnızca kuyruk işlenir
93          repeat(3) { recs.add(FanRecord.of((recs.size + 1).toLong(), recs.last().timestamp + 20, 1 + it)) }
94          val engine3 = engine()
95          val rt3 = V13Runtime(store) { clock() }
96          val plan3 = rt3.prepare(recs.toList())
97          assertEquals("CATCHUP", plan3.kind)
98          assertEquals(120, plan3.startAt)
99          rt3.finish(plan3, V13Env(engine3, null, engine3.cfg) { recs.toList() })
100         assertEquals(123, rt3.final.value!!.predictionSequence)
```

[Dosya #76/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/v13/V13RuntimeTest.kt (Satır 101 ve sonrası)

```
        assertEquals(123, rt3.insights.value!!.stats.total)
    }

    @Test fun researchReplayIsSandboxedAndReproducible() {
        val engine = engine()
        val env = V13Env(engine, null, engine.cfg) { recs.toList() }
        val rt = V13Runtime(store) { clock() }
        rt.finish(rt.prepare(recs.toList()), env)
        val live = rt.final.value!!.predictionLockId
        val liveSnap = rt.brain.snapshot()
        val a = rt.research(recs.toList(), engine.cfg, null)!!
        val b = rt.research(recs.toList(), engine.cfg, null)!!
        assertEquals(a.fingerprint, b.fingerprint)
        assertEquals(0L, a.result.leakViolations)
        assertTrue(a.summary.metrics.isNotEmpty())
        assertTrue(a.counterfactual.size == 4)
        assertEquals(live, rt.final.value!!.predictionLockId)       // canlı tahmin etkilenmedi
        assertTrue(liveSnap.contentEquals(rt.brain.snapshot()))     // canlı durum aynen
        assertTrue(store.replays(5).any { it.mode == "RESEARCH" })
    }
}
```

[Dosya #77/84] Proje Yolu: app/src/test/java/fan/superai/v13/V13StoreTest.kt

BÖLÜM 10 · Kotlin

Kök: /home/user/FanSuper-FANLAB | Boyut: 5.957 B (5.8 KB) | Satır: 143 satır SHA-256: a674bb3104af5da136a42f6fb1014395…

```
package fan.superai.v13

import android.app.Application
import fan.superai.engine.EngineConfig
import fan.superai.v13.db.FanDatabase
import fan.superai.v13.db.V13Store
import org.junit.After
import org.junit.Assert.assertEquals
import org.junit.Assert.assertNotNull
import org.junit.Assert.assertNull
import org.junit.Assert.assertTrue
import org.junit.Before
import org.junit.Test
import org.junit.runner.RunWith
import org.robolectric.RobolectricTestRunner
import org.robolectric.RuntimeEnvironment
import org.robolectric.annotation.Config
import kotlin.random.Random

/** Room kalıcılığı: kayıtlar, durum parçaları, tahmin geçmişi, geri alma, açılış planı (devam / kuyruk / tam). */
@RunWith(RobolectricTestRunner::class)
@Config(sdk = [28], application = Application::class)
class V13StoreTest {
    private lateinit var db: FanDatabase
    private lateinit var store: V13Store

    @Before fun setUp() {
        db = FanDatabase.inMemory(RuntimeEnvironment.getApplication())
        store = V13Store(db)
    }

    @After fun tearDown() { db.close() }

    private fun records(n: Int, seed: Int = 4): List<FanRecord> {
        val r = Random(seed)
        return List(n) { FanRecord.of((it + 1).toLong(), 1_700_000_000L + it * 20L, 1 + r.nextInt(4)) }
    }

    private fun learned(recs: List<FanRecord>): FanBrain {
        val b = FanBrain()
        ReplayEngine.run(recs, b, EngineConfig(), null)
        b.predict(emptyList(), recs.last().timestamp + 1)
        return b
    }

    @Test fun recordsRoundTripAndSync() {
        val recs = records(30)
        store.syncRecords(recs.take(20))
        assertEquals(20, store.recordCount())
        store.syncRecords(recs)                        // yalnızca kuyruk eklenir
        assertEquals(30, store.recordCount())
        val back = store.records()
        assertEquals(recs.map { it.number }, back.map { it.number })
        assertEquals(recs.last().combinedSide, back.last().combinedSide)
        store.syncRecords(recs.take(25))               // fazlalık silinir
        assertEquals(25, store.recordCount())
    }

```

[Dosya #77/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/v13/V13StoreTest.kt (Satır 59 ve sonrası)

```
59      @Test fun statePersistsAndRestoresIdentically() {
60          val recs = records(90)
61          val b = learned(recs)
62          store.saveParts(b.exportParts(), b.count)
63          assertEquals(90, store.savedCount())
64          val parts = store.loadParts()
65          val c = FanBrain(); c.importParts(parts)
66          assertEquals(90, c.count)
67          assertEquals(b.open!!.prediction.predictionLockId, c.open!!.prediction.predictionLockId)
68          assertEquals(b.stats.total, c.stats.total)
69          // değişmeyen parçalar ikinci kez yazılmaz (ama hata da vermez)
70          store.saveParts(b.exportParts(), b.count)
71          assertEquals(90, store.savedCount())
72      }
73
74      @Test fun predictionRowsResolveRollbackAndPage() {
75          val recs = records(40)
76          val brain = FanBrain()
77          for ((i, r) in recs.withIndex()) {
78              val p = brain.predict(emptyList(), r.timestamp - 1)
79              store.savePrediction(V13Store.LIVE, p, true)
80              val ev = brain.onActual(r)
81              store.resolve(V13Store.LIVE, ev)
82          }
83          assertEquals(40, store.predictionTotal())
84          val page = store.page(0, 15)
85          assertEquals(15, page.size)
86          assertEquals(39, page.first().sequence)
87          assertNotNull(page.first().actualNumber)
88          assertEquals(recs.last().number, page.first().actualNumber)
89          assertEquals(15, store.page(15, 15).size)
90          assertNotNull(store.explanation(5))
91          store.rollbackTo(30)
92          assertEquals(31, store.predictionTotal())     // 0..30
93          val at30 = store.page(0, 1).first()
94          assertEquals(30, at30.sequence)
95          assertNull(at30.actualNumber)                 // yalnızca actual kolonları sıfırlanır
96          assertTrue(at30.lockId.startsWith("L30-"))
97      }
98
99      @Test fun undoSnapshotsKeepOnlyLastEight() {
100         val brain = FanBrain()
101         val recs = records(30)
102         for (r in recs) {
103             brain.predict(emptyList(), r.timestamp - 1)
104             val before = brain.count
105             brain.onActual(r)
106             brain.lastUndoSnapshot()?.let { store.saveUndo(it.first, it.second) }
107             assertEquals(before + 1, brain.count)
108         }
109         assertNotNull(store.loadUndo(29))
110         assertNotNull(store.loadUndo(22))
111         assertNull(store.loadUndo(20))
112         val snap = store.loadUndo(25)!!
113         val b = FanBrain(); b.restore(snap)
114         assertEquals(25, b.count)
115         assertNotNull(b.open)
116     }
117
118     @Test fun startupPlanResumeCatchupOrFull() {
119         val rt = V13Runtime(store)
120         val recs = records(80)
121         assertEquals("FULL", rt.prepare(recs).kind)                        // ilk kurulum
122         val b = learned(recs)
123         store.saveParts(b.exportParts(), b.count)
124         assertEquals("RESUME", rt.prepare(recs).kind)                      // aynı veri → yalnızca devam
125         val more = recs + records(5, seed = 9).mapIndexed { i, r -> FanRecord.of((81 + i).toLong(), 1_800_000_000L + i, r.number
    ↳ ) }
126         val plan = rt.prepare(more)
127         assertEquals("CATCHUP", plan.kind)                                 // yalnızca yeni kayıtlar
128         assertEquals(80, plan.startAt)
129         val altered = recs.dropLast(1) + FanRecord.of(80, recs.last().timestamp, if (recs.last().number == 1) 2 else 1)
130         assertEquals("FULL", rt.prepare(altered).kind)                     // veriyle uyuşmayan durum → tam replay
131         assertEquals("FULL", rt.prepare(recs, forceFull = true).kind)      // manuel Full Replay
132     }
133
134     @Test fun corruptedStateFallsBackToFullReplay() {
135         val rt = V13Runtime(store)
136         val recs = records(60)
137         val b = learned(recs)
138         val parts = b.exportParts().toMutableList()
139         parts[0] = StatePart(parts[0].table, parts[0].key, byteArrayOf(1, 2, 3))
140         store.saveParts(parts, b.count)
141         assertEquals("FULL", rt.prepare(recs).kind)
142     }
```

[Dosya #77/84 — Devam] Proje Yolu: app/src/test/java/fan/superai/v13/V13StoreTest.kt (Satır 143 ve sonrası)

```
}
```

[Dosya #78/84] Proje Yolu: app/src/test/python/test_fan_super.py

BÖLÜM 10 · Python

Kök: /home/user/FanSuper-FANLAB | Boyut: 6.146 B (6.0 KB) | Satır: 152 satır SHA-256: d8da9263a117d35525ce5cb5c071a7dd…

```python
# -*- coding: utf-8 -*-
"""Python meclisi geri alma (undo) testleri — CI'da ve yerelde çalışır.

Çalıştırma:
    pip install "numpy<2"
    cd app/src/main/python && python -m unittest discover -s ../../test/python -t . -v
"""
import json
import os
import sys
import tempfile
import time
import unittest

HERE = os.path.dirname(os.path.abspath(__file__))
PY_SRC = os.path.normpath(os.path.join(HERE, "..", "..", "main", "python"))
if PY_SRC not in sys.path:
    sys.path.insert(0, PY_SRC)

import fan_super as fs  # noqa: E402

CSV = os.path.normpath(os.path.join(HERE, "..", "..", "main", "assets", "fan_data_live.csv"))


def load_records(limit=None):
    """assets/fan_data_live.csv → (values, times) (Kotlin DataStore.parse ile aynı mantık)."""
    vals, times = [], []
    with open(CSV, encoding="utf-8-sig") as f:
        lines = [ln.strip() for ln in f if ln.strip()]
    head = lines[0].split("|")
    vi = head.index("sayi")
    ti = head.index("tarih")
    for ln in lines[1:]:
        c = ln.split("|")
        v = int(c[vi])
        if v not in (1, 2, 3, 4):
            continue
        t = int(time.mktime(time.strptime(c[ti], "%Y-%m-%d %H:%M:%S")))
        vals.append(v - 1)          # motor 0..3 kullanır
        times.append(t)
        if limit and len(vals) >= limit:
            break
    return vals, times


def replay(vals, times, cfg=None):
    fs.configure(json.dumps(cfg or {"window": 100}))
    return json.loads(fs.replay(json.dumps(vals), json.dumps(times)))


class UndoTest(unittest.TestCase):
    @classmethod
    def setUpClass(cls):
        cls.vals, cls.times = load_records(220)
        assert len(cls.vals) > 120, "test verisi yetersiz"

    def test_01_replay_shape(self):
        r = replay(self.vals, self.times)
        self.assertEqual(len(r["per"]), len(self.vals))
        self.assertEqual(len(r["next"]), 4)
        for p in r["per"] + [r["next"]]:
            self.assertAlmostEqual(sum(p), 1.0, places=6)

    def test_02_step_then_undo_is_exact_and_fast(self):
        r = replay(self.vals, self.times)
        n = len(self.vals)
        nxt = r["next"]

        t0 = time.time()
        fs.step(2, self.times[-1] + 5)
        step_ms = (time.time() - t0) * 1000.0

        t0 = time.time()
        back = json.loads(fs.undo_to(n))
        undo_ms = (time.time() - t0) * 1000.0

        # Geri alma, adım öncesi tahmini BİREBİR vermeli (veri bozulmaz).
        for a, b in zip(nxt, back):
```

[Dosya #78/84 — Devam] Proje Yolu: app/src/test/python/test_fan_super.py (Satır 79 ve sonrası)

```
            self.assertAlmostEqual(a, b, places=12)
        # Adım ve geri alma derin kopya yapmadığı için hızlı olmalı.
        self.assertLess(step_ms, 4000.0, "step çok yavaş: %.1f ms" % step_ms)
        self.assertLess(undo_ms, 4000.0, "undo çok yavaş: %.1f ms" % undo_ms)
        self.assertEqual(json.loads(fs.stats())).__len__(), 10)
        self.assertEqual(json.loads(fs.info())["n"], n)

    def test_03_undo_step_by_step_returns_previous_predictions(self):
        r = replay(self.vals, self.times)
        n = len(self.vals)
        preds = [r["next"]]                    # preds[i] = n+i kayıt bilinen tahmin
        for i in range(6):
            preds.append(json.loads(fs.step(i % 4, self.times[-1] + 10 + i)))
        # 6 adımı tek tek geri al: her undo_to(k) o andaki tahmini birebir vermeli
        for k in range(n + 5, n - 1, -1):
            got = json.loads(fs.undo_to(k))
            for a, b in zip(preds[k - n], got):
                self.assertAlmostEqual(a, b, places=12, msg="undo_to(%d) yanlış tahmin" % k)
        self.assertEqual(json.loads(fs.info())["n"], n)

    def test_04_deep_undo_matches_fresh_replay(self):
        replay(self.vals, self.times)
        n = len(self.vals)
        for i in range(5):                       # canlı adımlar
            fs.step(i % 4, self.times[-1] + 30 + i)
        target = n - 37                          # dayanak üzerinden ileri sarım gerektirir
        t0 = time.time()
        back = fs.undo_to(target)
        deep_ms = (time.time() - t0) * 1000.0
        self.assertTrue(back, "derin geri alma başarısız")
        ref = replay(self.vals[:target], self.times[:target])
        for a, b in zip(ref["next"], json.loads(back)):
            self.assertAlmostEqual(a, b, places=9)
        self.assertLess(deep_ms, 30000.0, "derin undo çok yavaş: %.1f ms" % deep_ms)

    def test_05_state_file_keeps_undo_fast(self):
        replay(self.vals, self.times)
        n = len(self.vals)
        with tempfile.TemporaryDirectory() as d:
            p = os.path.join(d, "py_state.pkl")
            self.assertEqual(fs.save_state(p), "ok")
            self.assertTrue(os.path.getsize(p) > 0)
            # Yeni süreç gibi: modül durumunu sıfırla ve dosyadan yükle.
            fs._council = None
            fs._journal.clear()
            fs._checkpoints.clear()
            out = fs.load_state(p, json.dumps(self.vals), json.dumps(self.times))
            self.assertTrue(out, "load_state doğrulamayı geçemedi")
            self.assertEqual(len(json.loads(out)["per"]), n)
            t0 = time.time()
            back = fs.undo_to(n - 3)
            ms = (time.time() - t0) * 1000.0
            self.assertTrue(back, "yükleme sonrası geri alma başarısız")
            ref = replay(self.vals[:n - 3], self.times[:n - 3])
            for a, b in zip(ref["next"], json.loads(back)):
                self.assertAlmostEqual(a, b, places=9)
            self.assertLess(ms, 30000.0, "yükleme sonrası undo çok yavaş: %.1f ms" % ms)

    def test_06_wrong_data_rejected(self):
        replay(self.vals[:50], self.times[:50])
        with tempfile.TemporaryDirectory() as d:
            p = os.path.join(d, "s.pkl")
            fs.save_state(p)
            self.assertEqual(fs.load_state(p, json.dumps(self.vals[:40]), json.dumps(self.times[:40])), "")

    def test_07_undo_beyond_history_is_empty(self):
        replay(self.vals[:40], self.times[:40])
        self.assertEqual(fs.undo_to(41), "")
        self.assertEqual(fs.undo_to(-1), "")
        self.assertTrue(fs.undo_to(40))          # aynı hedef: tahmini döndürür


if __name__ == "__main__":
    unittest.main(verbosity=2)
```

[Dosya #79/84] Proje Yolu: app/src/test/python/test_fan_side.py

BÖLÜM 10 · Python

Kök: /home/user/FanSuper-FANLAB | Boyut: 7.663 B (7.5 KB) | Satır: 177 satır SHA-256: 9f32072244aa2635c81600ad044f9781…

```
# -*- coding: utf-8 -*-
"""FAN SUPER v1.3 — Python yan meclisi + replay/leakage/persistence testleri.

Çalıştırma:  cd app/src/main/python && python ../../test/python/test_fan_side.py -v
"""
```

[Dosya #79/84 — Devam] Proje Yolu: app/src/test/python/test_fan_side.py (Satır 6 ve sonrası)

```python
import json
import os
import sys
import tempfile
import unittest

HERE = os.path.dirname(os.path.abspath(__file__))
PY_SRC = os.path.normpath(os.path.join(HERE, "..", "..", "main", "python"))
if PY_SRC not in sys.path:
    sys.path.insert(0, PY_SRC)

import numpy as np  # noqa: E402

import fan_side as fsd  # noqa: E402
import fan_super as fs  # noqa: E402

sys.path.insert(0, HERE)
from test_fan_super import load_records  # noqa: E402


def sides(vals):
    """İç değer 0..3 (sayı 1..4) → bs (3,4 BÜYÜK), oe (1,3 TEK)."""
    bs = [1 if v >= 2 else 0 for v in vals]
    oe = [1 if v % 2 == 0 else 0 for v in vals]
    return bs, oe


def lj(x):
    return json.dumps(x)


class SideTest(unittest.TestCase):
    @classmethod
    def setUpClass(cls):
        v, t = load_records(260)
        cls.v, cls.t = v, t
        cls.bs, cls.oe = sides(v)

    def test_01_outputs_are_distributions_for_both_axes(self):
        r = json.loads(fs.side_replay(lj(self.bs), lj(self.oe), lj(self.t), True))
        self.assertEqual(len(r["steps"]), len(self.bs))
        self.assertEqual(r["ids"], ["py_side_kalip", "py_side_ngram", "py_side_logit"])
        for st in r["steps"][::17]:
            for m in st["members"]:
                self.assertAlmostEqual(sum(m["bs"]), 1.0, places=4)
                self.assertAlmostEqual(sum(m["oe"]), 1.0, places=4)
                self.assertAlmostEqual(sum(m["comb"]), 1.0, places=4)
                self.assertEqual((len(m["bs"]), len(m["oe"]), len(m["comb"])), (2, 2, 4))

    def test_02_kalip_2_0_learns_patterns_on_BOTH_side_axes(self):
        # BS dizisi periyodu 7, OE dizisi periyodu 5 olan deterministik veri
        n = 400
        bs = [(1 if (i % 7) in (0, 1, 3) else 0) for i in range(n)]
        oe = [(1 if (i % 5) in (0, 2) else 0) for i in range(n)]
        c = fsd.SideCouncil()
        hits = {"bs": 0, "oe": 0}
        cnt = 0
        for i in range(n):
            per, _ = c.predict()
            if i >= 200:
                cnt += 1
                hits["bs"] += int(np.argmax(per[0]["bs"]) == bs[i])
                hits["oe"] += int(np.argmax(per[0]["oe"]) == oe[i])
            c.learn(bs[i], oe[i])
        self.assertGreater(hits["bs"] / cnt, 0.9)
        self.assertGreater(hits["oe"] / cnt, 0.9)

    def test_03_side_is_not_derived_from_numbers(self):
        # Aynı yan dizileri, farklı "sayılar" → aynı çıktı: modül sayıyı hiç görmez.
        c1, c2 = fsd.SideCouncil(), fsd.SideCouncil()
        for b, o in zip(self.bs[:80], self.oe[:80]):
            p1, _ = c1.predict(); p2, _ = c2.predict()
            for a, b2 in zip(p1, p2):
                for ax in fsd.AXES:
                    np.testing.assert_allclose(a[ax], b2[ax])
            c1.learn(b, o, 1); c2.learn(b, o, 999)

    def test_04_future_data_never_leaks_prefix_invariance(self):
        a_bs, a_oe = list(self.bs), list(self.oe)
        b_bs, b_oe = list(self.bs), list(self.oe)
        for i in range(150, len(b_bs)):          # 150'den sonrası tamamen farklı
            b_bs[i] = 1 - b_bs[i]
            b_oe[i] = 1 - b_oe[i]
        ra = json.loads(fs.side_replay(lj(a_bs), lj(a_oe), "[]", True))
        rb = json.loads(fs.side_replay(lj(b_bs), lj(b_oe), "[]", True))
```

[Dosya #79/84 — Devam] Proje Yolu: app/src/test/python/test_fan_side.py (Satır 91 ve sonrası)

```
91          for i in range(151):                        # adım 150, kayıt 0..149'u bilir
92              self.assertEqual(ra["steps"][i], rb["steps"][i], "adım %d sızdırdı" % i)
93          self.assertNotEqual(ra["steps"][-1], rb["steps"][-1])
94
95      def test_05_replay_equals_incremental_steps(self):
96          r = json.loads(fs.side_replay(lj(self.bs[:120]), lj(self.oe[:120]), "[]", True))
97          fs.side_replay("[]", "[]", "[]", False)
98          last = None
99          for b, o in zip(self.bs[:120], self.oe[:120]):
100             last = json.loads(fs.side_step(b, o))
101         self.assertEqual(last["members"], r["next"]["members"])
102         self.assertEqual(last["mix"], r["next"]["mix"])
103
104     def test_06_sandbox_replay_does_not_touch_live_state(self):
105         fs.side_replay(lj(self.bs[:60]), lj(self.oe[:60]), "[]", False)
106         before = fs.side_next()
107         fs.side_replay(lj(self.bs[:200]), lj(self.oe[:200]), "[]", True)
108         self.assertEqual(fs.side_next(), before)
109         self.assertEqual(fs._side.S.n, 60)
110
111     def test_07_undo_restores_exact_prediction(self):
112         fs.side_replay(lj(self.bs[:100]), lj(self.oe[:100]), "[]", False)
113         base = fs.side_next()
114         for b, o in zip(self.bs[100:104], self.oe[100:104]):
115             fs.side_step(b, o)
116         for n in (103, 102, 101, 100):
117             r = fs.side_undo_to(n)
118             self.assertTrue(r, "undo %d" % n)
119         self.assertEqual(json.loads(fs.side_next())["members"], json.loads(base)["members"])
120         self.assertEqual(fs._side.S.n, 100)
121
122     def test_08_save_load_processes_only_new_records(self):
123         fs.side_replay(lj(self.bs[:150]), lj(self.oe[:150]), "[]", False)
124         with tempfile.TemporaryDirectory() as d:
125             p = os.path.join(d, "side.pkl")
126             self.assertEqual(fs.side_save(p), "ok")
127             fs.side_replay("[]", "[]", "[]", False)       # belleği boşalt
128             r = json.loads(fs.side_load(p, lj(self.bs[:200]), lj(self.oe[:200])))
129             self.assertEqual(r["cached"], 150)
130             full = json.loads(fs.side_replay(lj(self.bs[:200]), lj(self.oe[:200]), "[]", True))
131             self.assertEqual(r["members"], full["next"]["members"])
132             # farklı geçmiş → önek değil → reddedilir
133             bad = list(self.bs[:200]); bad[3] = 1 - bad[3]
134             self.assertEqual(fs.side_load(p, lj(bad), lj(self.oe[:200])), "")
135
136
137 class CouncilReplayTest(unittest.TestCase):
138     @classmethod
139     def setUpClass(cls):
140         cls.v, cls.t = load_records(130)
141         fs.configure(json.dumps({"window": 100, "dl": False}))
142
143     def test_01_replay_members_shape_and_sandbox_isolated(self):
144         fs.replay(lj(self.v[:90]), lj(self.t[:90]))
145         live = fs.member_info()
146         sb = json.loads(fs.sandbox_replay(lj(self.v), lj(self.t)))
147         self.assertEqual(len(sb["members"]), len(self.v))
148         self.assertEqual(len(sb["members"][0]), len(sb["ids"]))
149         self.assertEqual(fs.member_info(), live)           # canlı durum değişmedi
150         self.assertEqual(len(fs._council.vals), 90)
151
152     def test_02_member_info_matches_mix(self):
153         fs.replay(lj(self.v[:100]), lj(self.t[:100]))
154         mi = json.loads(fs.member_info())
155         mix = np.zeros(4)
156         for p, s in zip(mi["preds"], mi["share"]):
157             mix += s * np.asarray(p)
158         np.testing.assert_allclose(mix / mix.sum(), fs._council.last_mix, atol=1e-4)
159
160     def test_03_load_state_with_new_records_steps_only_the_tail(self):
161         fs.replay(lj(self.v[:100]), lj(self.t[:100]))
162         with tempfile.TemporaryDirectory() as d:
163             p = os.path.join(d, "py.pkl")
164             fs.save_state(p)
165             fs.replay("[]", "[]")
166             r = json.loads(fs.load_state(p, lj(self.v[:112]), lj(self.t[:112])))
167             self.assertEqual(r["cached"], 100)
168             self.assertEqual(len(r["tail_members"]), 12)
169             self.assertEqual(len(r["per"]), 112)
170             full = json.loads(fs.replay(lj(self.v[:112]), lj(self.t[:112]), True))
171             np.testing.assert_allclose(r["next"], full["next"], atol=1e-9)
172             for a, b in zip(r["tail_members"], full["members"][100:]):
173                 np.testing.assert_allclose(a, b, atol=1e-5)
174
175
```

[Dosya #79/84 — Devam] Proje Yolu: app/src/test/python/test_fan_side.py (Satır 176 ve sonrası)

```
176 if __name__ == "__main__":
177     unittest.main()
```

BÖLÜM 11: Mockup ve Görsel Tasarım Dosyaları (mockup/)

3 Dosya · 284 Satır · 201.8 KB

Overlay tasarım karşılaştırma sayfası (mockup/index.html) ve eski/yeni overlay görselleri (eski-overlay.png, yeni-overlay.png).

[Dosya #80/84] Proje Yolu: mockup/index.html

BÖLÜM 11 · HTML/CSS

Kök: /home/user/FanSuper-FANLAB | Boyut: 24.269 B (23.7 KB) | Satır: 284 satır SHA-256: c71c237f477a5c056da74ec72231009c…

```
<!DOCTYPE html>
<html lang="tr"><head><meta charset="utf-8"><meta name="viewport" content="width=device-width,initial-scale=1">
<title>FAN Yeni — Mockup</title>
<style>
*{box-sizing:border-box;margin:0;padding:0}
body{background:#0b0f17;color:#e6edf6;font-family:system-ui,-apple-system,Segoe UI,Roboto,sans-serif;padding:24px}
h1{font-size:22px;margin-bottom:4px}.sub{color:#8a97aa;font-size:13px;margin-bottom:24px}
h2{font-size:15px;color:#9fb3cc;margin:10px 0 12px;text-align:center}
.row{display:flex;flex-wrap:wrap;gap:28px;justify-content:center;margin-bottom:40px}
.phone{width:330px;height:680px;border-radius:38px;background:#111;border:10px solid #222;box-shadow:0 20px 50px #0008;overflow:hidden;position:relative;display:flex;flex-direction:column}
.status{height:24px;font-size:11px;color:#bbb;display:flex;justify-content:space-between;padding:4px 18px;background:#0d1320}
.scr{flex:1;overflow-y:auto;background:#0f1726;padding:12px}
.scr::-webkit-scrollbar{width:0}
.nav{height:56px;background:#0d1320;border-top:1px solid #1e2a3d;display:flex}
.nav div{flex:1;text-align:center;font-size:10px;color:#6f7f96;padding-top:8px}
.nav div b{display:block;font-size:18px;font-weight:normal}
.nav .on{color:#64B5F6}
.card{background:#16223a;border:1px solid #22324f;border-radius:14px;padding:12px;margin-bottom:10px}
.ct{font-size:11px;color:#8aa3c4;text-transform:uppercase;letter-spacing:.6px;margin-bottom:8px}
.big{font-size:54px;font-weight:800;text-align:center;letter-spacing:2px}
.center{text-align:center}.muted{color:#8a97aa;font-size:12px}
.kv{display:flex;justify-content:space-between;font-size:13px;padding:4px 0;border-bottom:1px dashed #22324f}
.kv:last-child{border:0}
.btns{display:flex;gap:8px;margin-top:8px}
.btns button{flex:1;height:54px;border:0;border-radius:12px;color:#fff;font-size:22px;font-weight:700}
.b1{background:#4CAF50}.b2{background:#2196F3}.b3{background:#FF9800}.b4{background:#F44336}.bd{background:#78909C;font-size:14px!important}
.bar{height:8px;border-radius:4px;background:#22324f;overflow:hidden;margin-top:3px}
.bar i{display:block;height:100%}
.tabs{display:flex;gap:6px;margin-bottom:10px}
.tabs span{flex:1;text-align:center;font-size:12px;padding:7px 0;border-radius:9px;background:#16223a;color:#8a97aa}
.tabs .on{background:#1565C0;color:#fff}
table{width:100%;border-collapse:collapse;font-size:12px}
td,th{padding:5px 3px;text-align:left}th{color:#8aa3c4;font-weight:600;font-size:11px}
tr+tr td{border-top:1px solid #1e2a3d}
.bench td{color:#6f7f96}
.pill{display:inline-block;font-size:10px;padding:2px 7px;border-radius:9px;background:#22324f;color:#9fb3cc}
.sw{width:34px;height:19px;border-radius:10px;background:#1565C0;position:relative;display:inline-block}
.sw::after{content:"";position:absolute;right:2px;top:2px;width:15px;height:15px;border-radius:50%;background:#fff}
.sw.off{background:#3a4658}.sw.off::after{left:2px;right:auto}
.set{display:flex;justify-content:space-between;align-items:center;font-size:13px;padding:9px 0;border-bottom:1px solid #1e2a3d}
.set:last-child{border:0}.set small{display:block;color:#6f7f96;font-size:10.5px}
.val{background:#22324f;border-radius:7px;padding:3px 9px;font-size:12px;color:#cfe0f5}
.danger{color:#ff8a80}.warn{color:#FFB74D}.ok{color:#81C784}
.bg{background:linear-gradient(160deg,#243b55,#141e30)}
.ov{background:rgba(21,101,192,.8);border-radius:14px;padding:8px 10px;width:170px;box-shadow:0 6px 18px #0007}
.ovr{display:flex;align-items:baseline;justify-content:space-between;gap:6px;padding:2px 0}
.ovl{font-size:11px;color:#BBDEFB;width:52px}
.ovp{font-size:17px;font-weight:800;font-family:monospace}
.ovc{font-size:10px;color:#FFB74D;font-family:monospace;width:30px;text-align:right}
.ovs{font-size:9px;color:#BBDEFB;text-align:center;font-family:monospace;padding:3px 0}
.ovb{display:flex;gap:4px;margin-top:4px}
.ovb span{flex:1;text-align:center;border-radius:7px;color:#fff;font-weight:700;font-size:13px;padding:5px 0}
.det{border-top:1px solid #90CAF966;margin-top:4px;padding-top:4px}
.det .ovr .ovp{font-size:12px}
.fake{position:absolute;inset:0;padding:16px}
.fake div{height:70px;border-radius:10px;background:#ffffff0d;margin-bottom:12px}
</style></head><body>
<h1>📱 FAN Yeni (com.fan.yeni) — Görsel Mockup</h1>
<div class="sub">Tüm sayılar örnektir. Aşağı kaydır: Overlay → Ana ekran → Meclisler → Keşif → Grafik → Ayarlar. Her telefonun ici kaydırılabilir.</div>

<h2 style="font-size:18px;color:#fff">1 · OVERLAY</h2>
<div class="row">
 <div><h2>Dikey (normal)</h2>
 <div class="phone"><div class="status"><span>14:32</span><span>▂▄▆ 🔋</span></div>
  <div class="scr bg" style="position:relative"><div class="fake"><div></div><div></div><div></div><div></div><div></div><div></div></div>
   <div class="ov" style="position:absolute;right:12px;top:120px">
    <div class="ovr"><span class="ovl">🎯 FAN</span><span class="ovp" style="color:#fff">2/3</span><span class="ovc">%34</span></div>
    <div class="ovr"><span class="ovl">☆ Yan</span><span class="ovp" style="color:#E1BEE7">T•K</span><span class="ovc">%61</span></div>
    <div class="ovs">2 3 1 4 2 3</div>
    <div class="ovb"><span style="background:#78909C;font-size:10px;padding-top:7px">DEL</span><span style="background:#F44336">4</span><span style="background:#FF9800">3</span><span style="background:#2196F3">2</span><span style="background:#4CAF50">1</span></div>
```

[Dosya #80/84 — Devam] Proje Yolu: mockup/index.html (Satır 71 ve sonrası)

```
    </div></div></div></div>

  <div><h2>Dikey + detay (uzun bas)</h2>
  <div class="phone"><div class="status"><span>14:32</span><span>▂▄ 🔋</span></div>
   <div class="scr bg" style="position:relative"><div class="fake"><div></div><div></div><div></div><div></div><div></div></div>
    <div class="ov" style="position:absolute;right:12px;top:120px">
     <div class="ovr"><span class="ovl">🎯 FAN</span><span class="ovp" style="color:#A5D6A7">3</span><span class="ovc">%41</span></div>
     <div class="ovr"><span class="ovl">☆ Yan</span><span class="ovp" style="color:#81C784">T•B=</span><span class="ovc">%64</span></div>
     <div class="det">
      <div class="ovr"><span class="ovl">🛢 Kotlin</span><span class="ovp">3/1</span><span class="ovc">%36</span></div>
      <div class="ovr"><span class="ovl">🐍 Python</span><span class="ovp">3</span><span class="ovc">%43</span></div>
      <div class="ovr"><span class="ovl">⚖ Hakem</span><span class="ovp" style="font-size:10px">🛢56 · 🐍44</span></div>
      <div class="ovs">🏆 Kalıp2.0 · CTW · LSTM</div>
     </div>
     <div class="ovs">2 3 1 4 2 3</div>
     <div class="ovb"><span style="background:#78909C;font-size:10px;padding-top:7px">DEL</span><span style="background:#F44336">4</span><span style="background:#FF9800">3</span><span style="background:#2196F3">2</span><span style="background:#4CAF50">1</span></div>
    </div>
    <div style="position:absolute;bottom:20px;left:0;right:0;text-align:center;font-size:11px;color:#9fb3cc">Tek tahmin = yeşil rakam · "=" = yan tahmin tuttu</div>
   </div></div></div>

  <div><h2>Yatay (kompakt)</h2>
  <div class="phone" style="width:680px;height:330px"><div class="status"><span>14:32</span><span>▂▄ 🔋</span></div>
   <div class="scr bg" style="position:relative"><div class="fake" style="display:flex;gap:12px"><div style="flex:1;height:200px"></div><div style="flex:1;height:200px"></div></div>
    <div class="ov" style="position:absolute;left:50%;transform:translateX(-50%);top:14px;width:auto;display:flex;align-items:center;gap:10px;padding:6px 10px;white-space:nowrap">
     <span class="ovl" style="width:auto">FAN</span><span class="ovp" style="font-size:15px">2/3</span><span class="ovc">%34</span>
     <span style="color:#90CAF9">|</span><span class="ovl" style="width:auto">Yan</span><span class="ovp" style="font-size:14px;color:#E1BEE7">T•K</span><span class="ovc">%61</span>
     <span style="color:#90CAF9">|</span><span class="ovs">2 3 1 4 2 3</span>
     <div class="ovb" style="margin:0;width:150px"><span style="background:#78909C;font-size:10px">⌫</span><span style="background:#F44336">4</span><span style="background:#FF9800">3</span><span style="background:#2196F3">2</span><span style="background:#4CAF50">1</span></div>
    </div></div></div></div>
</div>

<h2 style="font-size:18px;color:#fff">2 · UYGULAMA İÇİ EKRANLAR</h2>
<div class="row">

<div><h2>Ana ekran</h2>
<div class="phone"><div class="status"><span>14:32</span><span>▂▄ 🔋</span></div>
<div class="scr">
 <div style="display:flex;justify-content:space-between;align-items:center;margin-bottom:10px">
  <div><b style="font-size:18px">FAN Yeni</b> <span class="pill">v1.0</span></div>
  <span class="pill" style="background:#1565C0;color:#fff">● Overlay AÇIK</span></div>
 <div class="card"><div class="ct">🎯 Tahmin</div>
  <div class="big">2 / 3</div><div class="center muted">güven %34</div>
  <div class="center" style="margin-top:8px;font-size:18px">☆ <b style="color:#E1BEE7">T • K</b> <span class="muted">%61</span></div></div>
 <div class="card"><div class="ct">⚖ Baş Hakem</div>
  <div style="display:flex;height:22px;border-radius:8px;overflow:hidden;font-size:11px;font-weight:700">
   <div style="width:58%;background:#1976D2;display:flex;align-items:center;justify-content:center">🛢 %58</div>
   <div style="width:42%;background:#388E3C;display:flex;align-items:center;justify-content:center">🐍 %42</div></div>
  <div class="kv" style="margin-top:6px"><span>🛢 Kotlin Meclisi</span><b>2/1 · %33</b></div>
  <div class="kv"><span>🐍 Python Meclisi</span><b>2/3 · %35</b></div></div>
 <div class="card"><div class="ct">Başarı (son 100) · şans çizgisiyle</div>
  <div class="kv"><span>Tek</span><span><b>%27</b> <span class="muted">/ şans %25</span></span></div>
  <div class="kv"><span>Çift (ikisinden biri)</span><span><b>%52</b> <span class="muted">/ şans %50</span></span></div>
  <div class="kv"><span>Yan (herhangi)</span><span><b>%78</b> <span class="muted">/ şans %75</span></span></div>
  <div class="kv"><span>Yan (ikisi birden)</span><span><b>%26</b> <span class="muted">/ şans %25</span></span></div></div>
 <div class="card"><div class="ct">Veri</div>
  <div class="kv"><span>Kayıt</span><b>893</b></div>
  <div class="kv"><span>Son 6</span><b style="font-family:monospace;letter-spacing:3px">2 3 1 4 2 3</b></div>
  <div class="kv"><span>🔍 Keşif özeti</span><span class="warn">gecikme-2 takipte</span></div>
  <div class="btns"><button class="b1">1</button><button class="b2">2</button><button class="b3">3</button><button class="b4">4</button></div>
  <div class="btns"><button class="bd">⌫ Geri al</button></div></div>
</div>
<div class="nav"><div class="on"><b>🏠</b>Ana</div><div><b>🏛</b>Meclisler</div><div><b>🔍</b>Keşif</div><div><b>▦</b>Grafik</div><div><b>⚙</b>Ayarlar</div></div></div></div>

<div><h2>Meclisler · Kotlin</h2>
<div class="phone"><div class="status"><span>14:32</span><span>▂▄ 🔋</span></div>
<div class="scr">
 <div class="tabs"><span class="on">🛢 Kotlin</span><span>🐍 Python</span><span>☆ Yan</span></div>
 <div class="card"><div class="ct">🛢 Kotlin Meclisi · 8 üye · Fixed-Share Hedge</div>
 <table><tr><th>#</th><th>Üye</th><th>Tek</th><th>Çift</th><th>Ağr.</th></tr>
 <tr><td>🥇</td><td>Kalıp Arama 2.0</td><td>%28</td><td>%53</td><td>1.72</td></tr>
 <tr><td>🥈</td><td>CTW</td><td>%27</td><td>%52</td><td>1.51</td></tr>
```

[Dosya #80/84 — Devam] Proje Yolu: mockup/index.html (Satır 142 ve sonrası)

```
142  <tr><td>🥉</td><td>PPM</td><td>%26</td><td>%51</td><td>1.33</td></tr>
143  <tr><td>4</td><td>GRU</td><td>%25</td><td>%50</td><td>1.08</td></tr>
144  <tr><td>5</td><td>Frekans / Aralık</td><td>%25</td><td>%49</td><td>0.97</td></tr>
145  <tr><td>6</td><td>Seri / Dalga</td><td>%24</td><td>%49</td><td>0.90</td></tr>
146  <tr class="bench"><td>💤</td><td>Rejim</td><td>%21</td><td>%44</td><td>0.31</td></tr>
147  <tr class="bench"><td>💤</td><td>ESN</td><td>%20</td><td>%43</td><td>0.22</td></tr></table>
148  <div class="muted" style="margin-top:6px">💤 = yedek kulübesi (oy vermiyor, formu düzelirse döner)</div></div>
149  <div class="card"><div class="ct">🎯 Aktif kalıp (Kalıp Arama 2.0)</div>
150   <div class="kv"><span>Önde olan görünüm</span><b>Küçük/Büyük</b></div>
151   <div class="kv"><span>Uzunluk</span><b>14</b></div>
152   <div class="kv"><span>Eşleşme sayısı</span><b>23</b></div>
153   <div class="kv"><span>Son değişim</span><span class="muted">37 tur önce (Delta'dan)</span></div>
154   <div style="margin-top:6px;font-size:11px" class="muted">Görünümler: Ham · Delta · Şekil · T/Ç · K/B · Ayna · Bulanık</div></d
↳ iv>
155  <div class="card"><div class="ct">Üye detayı (dokununca açılır)</div>
156   <div class="muted">Kalıp Arama 2.0 · son 50 tahmin</div>
157   <svg width="100%" height="60" viewBox="0 0 280 60"><line x1="0" y1="35" x2="280" y2="35" stroke="#6f7f96" stroke-dasharray="4"
↳ /><polyline fill="none" stroke="#64B5F6" stroke-width="2" points="0,40 20,36 40,30 60,33 80,28 100,31 120,25 140,29 160,34 180,2
↳ 7 200,24 220,30 240,26 260,28 280,25"/><text x="230" y="48" fill="#6f7f96" font-size="9">şans %25</text></svg></div>
158 </div>
159 <div class="nav"><div><b>🏠</b>Ana</div><div class="on"><b>🏛</b>Meclisler</div><div><b>🔍</b>Keşif</div><div><b>📊</b>Grafik</div>
↳ <div><b>⚙</b>Ayarlar</div></div></div></div>
160
161 <div><h2>Meclisler · Python</h2>
162 <div class="phone"><div class="status"><span>14:32</span><span>▂▄▆ 🔋</span></div>
163 <div class="scr">
164  <div class="tabs"><span>🟢 Kotlin</span><span class="on">🐍 Python</span><span>☆ Yan</span></div>
165  <div class="card"><div class="ct">🐍 Python Meclisi · 10 üye · gömülü (Chaquopy)</div>
166  <table><tr><th>#</th><th>Üye</th><th>Tek</th><th>Çift</th><th>Ağr.</th></tr>
167  <tr><td>🥇</td><td>LSTM</td><td>%28</td><td>%52</td><td>1.64</td></tr>
168  <tr><td>🥈</td><td>kNN-DTW</td><td>%27</td><td>%52</td><td>1.47</td></tr>
169  <tr><td>🥉</td><td>Kalıp 2.0 bulanık</td><td>%26</td><td>%51</td><td>1.30</td></tr>
170  <tr><td>4</td><td>Transformer</td><td>%26</td><td>%50</td><td>1.18</td></tr>
171  <tr><td>5</td><td>Spektral/BOCPD</td><td>%25</td><td>%50</td><td>1.02</td></tr>
172  <tr><td>6</td><td>Gradient Boost</td><td>%25</td><td>%50</td><td>0.99</td></tr>
173  <tr><td>7</td><td>Bağlam modeli</td><td>%25</td><td>%49</td><td>0.94</td></tr>
174  <tr><td>8</td><td>Motif keşfi</td><td>%24</td><td>%49</td><td>0.88</td></tr>
175  <tr class="bench"><td>💤</td><td>1D-CNN</td><td>%21</td><td>%45</td><td>0.33</td></tr>
176  <tr class="bench"><td>💤</td><td>HMM</td><td>%21</td><td>%44</td><td>0.29</td></tr></table></div>
177  <div class="card"><div class="ct">⚙ Python motoru</div>
178   <div class="kv"><span>Durum</span><span class="ok">● çalışıyor</span></div>
179   <div class="kv"><span>Son tahmin süresi</span><b>0.42 sn</b></div>
180   <div class="kv"><span>Model kayıtlı mı</span><b>Evet (893 tur)</b></div></div>
181  <div class="card"><div class="ct">☆ Yan meclisi (sekme önizleme)</div>
182   <div class="kv"><span>Tek/Çift uzmanı</span><b>T · %56</b></div>
183   <div class="kv"><span>Küçük/Büyük uzmanı</span><b>K · %58</b></div>
184   <div class="kv"><span>Rakamdan türetilen</span><b>2/3 → T•K</b></div></div>
185 </div>
186 <div class="nav"><div><b>🏠</b>Ana</div><div class="on"><b>🏛</b>Meclisler</div><div><b>🔍</b>Keşif</div><div><b>📊</b>Grafik</div>
↳ <div><b>⚙</b>Ayarlar</div></div></div></div>
187
188 <div><h2>Keşif Laboratuvarı</h2>
189 <div class="phone"><div class="status"><span>14:32</span><span>▂▄▆ 🔋</span></div>
190 <div class="scr">
191  <div class="card"><div class="ct">🔍 Rastgelelik testleri · 893 kayıt</div>
192   <div class="kv"><span>Dağılım (ki-kare)</span><span class="ok">✓ eşit · p=0.69</span></div>
193   <div class="kv"><span>Gecikme 1</span><span class="ok">✓ yok · p=0.62</span></div>
194   <div class="kv"><span>Gecikme 2</span><span class="warn">⚠ iz · p=0.015</span></div>
195   <div class="kv"><span>Gecikme 3–5</span><span class="ok">✓ yok</span></div>
196   <div class="kv"><span>Sıkıştırma</span><span class="ok">✓ rastgele gibi</span></div>
197   <div class="kv"><span>Seri testi T/Ç · K/B</span><span class="ok">✓ normal</span></div>
198   <div class="kv"><span>Permütasyon entropisi</span><b>0.99 / 1.00</b></div></div>
199  <div class="card"><div class="ct">Periyot · Değişim · Gecikme</div>
200   <div class="kv"><span>Spektral periyot</span><span class="muted">anlamlı yok</span></div>
201   <div class="kv"><span>BOCPD değişim noktası</span><b>#512 ?</b></div>
202   <div class="kv"><span>Saat / oturum etkisi</span><span class="ok">✓ yok</span></div>
203   <div class="kv"><span>"Gecikti gelir" (hazard)</span><span class="muted">etki yok</span></div>
204   <div class="kv"><span>Hawkes / sıcak-soğuk</span><span class="muted">etki yok</span></div></div>
205  <div class="card"><div class="ct">Karşılıklı bilgi (gecikme 1–10)</div>
206   <svg width="100%" height="80" viewBox="0 0 280 80">
207    <line x1="0" y1="45" x2="280" y2="45" stroke="#6f7f96" stroke-dasharray="3"/>
208    <g fill="#64B5F6"><rect x="5" y="60" width="20" height="10"/><rect x="33" y="30" width="20" height="40" fill="#FFB74D"/><rect
↳ x="61" y="52" width="20" height="18"/><rect x="89" y="58" width="20" height="12"/><rect x="117" y="49" width="20" height="21"/>
↳ <rect x="145" y="61" width="20" height="9"/><rect x="173" y="57" width="20" height="13"/><rect x="201" y="62" width="20" height=
↳ "8"/><rect x="229" y="56" width="20" height="14"/><rect x="257" y="60" width="20" height="10"/></g>
209    <text x="190" y="40" fill="#6f7f96" font-size="9">anlamlılık sınırı</text></svg></div>
210  <div class="card" style="border-color:#FFB74D55"><div class="ct">🎯 Karar</div>
211   <div style="font-size:13px">Güçlü düzen yok. Gecikme-2 takipte. İlgili üyelerin ağırlığı otomatik ayarlanıyor.</div>
212   <div class="btns"><button class="bd" style="font-size:13px!important;background:#1565C0">▶ Testleri yeniden çalıştır</button><
↳ /div></div>
213 </div>
214 <div class="nav"><div><b>🏠</b>Ana</div><div><b>🏛</b>Meclisler</div><div class="on"><b>🔍</b>Keşif</div><div><b>📊</b>Grafik</div>
↳ <div><b>⚙</b>Ayarlar</div></div></div></div>
215
216 <div><h2>Grafik</h2>
```

[Dosya #80/84 — Devam] Proje Yolu: mockup/index.html (Satır 217 ve sonrası)

```
217 <div class="phone"><div class="status"><span>14:32</span><span>▂▄▆ 🔋</span></div>
218 <div class="scr">
219  <div class="tabs"><span class="on">Tek</span><span>Çift</span><span>Yan</span></div>
220  <div class="card"><div class="ct">Kayan başarı (50'lik pencere)</div>
221   <svg width="100%" height="150" viewBox="0 0 280 150">
222    <text x="0" y="22" fill="#6f7f96" font-size="9">%35</text><text x="0" y="78" fill="#6f7f96" font-size="9">%25</text><text x="
↳ 0" y="134" fill="#6f7f96" font-size="9">%15</text>
223    <line x1="24" y1="75" x2="280" y2="75" stroke="#aaa" stroke-dasharray="5"/>
224    <polyline fill="none" stroke="#64B5F6" stroke-width="2" points="24,80 50,70 76,62 102,78 128,85 154,66 180,60 206,72 232,68 2
↳ 58,64 280,70"/>
225    <polyline fill="none" stroke="#81C784" stroke-width="2" points="24,72 50,82 76,76 102,66 128,74 154,80 180,70 206,64 232,78 2
↳ 58,72 280,66"/>
226    <polyline fill="none" stroke="#FFB74D" stroke-width="2.5" points="24,76 50,74 76,66 102,70 128,78 154,70 180,62 206,66 232,70
↳  258,64 280,64"/></svg>
227   <div class="muted" style="display:flex;gap:10px;flex-wrap:wrap"><span style="color:#FFB74D">━ Hakem</span><span style="color:#
↳ 64B5F6">━ Kotlin</span><span style="color:#81C784">━ Python</span><span>··· şans</span></div></div>
228  <div class="card"><div class="ct">Sayı dağılımı</div>
229   <div class="kv"><span>1</span><span style="flex:1;margin:0 8px"><div class="bar"><i style="width:88%;background:#4CAF50"></i><
↳ /div></span><b>222</b></div>
230   <div class="kv"><span>2</span><span style="flex:1;margin:0 8px"><div class="bar"><i style="width:92%;background:#2196F3"></i><
↳ /div></span><b>231</b></div>
231   <div class="kv"><span>3</span><span style="flex:1;margin:0 8px"><div class="bar"><i style="width:92%;background:#FF9800"></i><
↳ /div></span><b>231</b></div>
232   <div class="kv"><span>4</span><span style="flex:1;margin:0 8px"><div class="bar"><i style="width:83%;background:#F44336"></i><
↳ /div></span><b>209</b></div></div>
233  <div class="card"><div class="ct">Güven kalibrasyonu</div>
234   <div class="kv"><span>%20–30 denilen</span><b>%24 tuttu</b></div>
235   <div class="kv"><span>%30–40 denilen</span><b>%33 tuttu</b></div>
236   <div class="kv"><span>%40+ denilen</span><b>%42 tuttu</b></div>
237   <div class="muted" style="margin-top:4px">Kalibrasyon sonrası: yazan yüzde ≈ gerçek başarı</div></div>
238 </div>
239 <div class="nav"><div><b>🏠</b>Ana</div><div><b>🏛</b>Meclisler</div><div><b>🔍</b>Keşif</div><div class="on"><b>▦</b>Grafik</div>
↳ <div><b>⚙</b>Ayarlar</div></div></div></div>
240
241 <div><h2>Ayarlar (kaydır)</h2>
242 <div class="phone"><div class="status"><span>14:32</span><span>▂▄▆ 🔋</span></div>
243 <div class="scr">
244  <div class="card"><div class="ct">🎯 Tahmin</div>
245   <div class="set"><span>Çift tahmin kararı<small>Konformal: gerekince 2 rakam</small></span><span class="val">Otomatik ▾</span>
↳ </div>
246   <div class="set"><span>İlk sessiz tur<small>Öğrenme başlangıcı</small></span><span class="val">50 ▾</span></div>
247   <div class="set"><span>Güven kalibrasyonu</span><span class="sw"></span></div>
248   <div class="set"><span>Yan tahmini rakamdan türet</span><span class="sw"></span></div></div>
249  <div class="card"><div class="ct">🏛 Meclis & Yarış</div>
250   <div class="set"><span>Değerlendirme penceresi</span><span class="val">100 ▾</span></div>
251   <div class="set"><span>Yedeğe düşme eşiği</span><span class="val">%22 ▾</span></div>
252   <div class="set"><span>Ağırlık yöntemi</span><span class="val">Fixed-Share ▾</span></div>
253   <div class="set"><span>Hakem birleştirme<small>Stacking / ağırlıklı ortalama</small></span><span class="val">Stacking ▾</span>
↳ </div>
254   <div class="set"><span>Eski veriyi unutma hızı</span><span class="val">Orta ▾</span></div>
255   <div class="set"><span>Üyeleri aç/kapat</span><span class="val">18 aktif ›</span></div></div>
256  <div class="card"><div class="ct">🐍 Python motoru</div>
257   <div class="set"><span>Python meclisi</span><span class="sw"></span></div>
258   <div class="set"><span>Derin öğrenme modelleri<small>LSTM · GRU · Transformer · CNN</small></span><span class="sw"></span></di
↳ v>
259   <div class="set"><span>Pil tasarrufu<small>Ağır modelleri 5 turda bir eğit</small></span><span class="sw off"></span></div></d
↳ iv>
260  <div class="card"><div class="ct">▣ Overlay</div>
261   <div class="set"><span>Yerleşim</span><span class="val">Dikey ▾</span></div>
262   <div class="set"><span>Uzun basınca detay paneli</span><span class="sw"></span></div>
263   <div class="set"><span>Saydamlık</span><span class="val">%80</span></div>
264   <div class="set"><span>Yazı boyutu</span><span class="val">Normal ▾</span></div>
265   <div class="set"><span>Son sayı dizisi göster</span><span class="sw"></span></div>
266   <div class="set"><span>Titreşimli buton</span><span class="sw off"></span></div></div>
267  <div class="card"><div class="ct">🔍 Keşif</div>
268   <div class="set"><span>Testleri otomatik çalıştır</span><span class="val">50 turda bir ▾</span></div>
269   <div class="set"><span>Tüm veride backtest</span><span class="val">▶ Çalıştır</span></div></div>
270  <div class="card"><div class="ct">💾 Veri</div>
271   <div class="set"><span>📥 CSV içe aktar<small>Eski FAN verisi (fan_data_live.csv)</small></span><span>›</span></div>
272   <div class="set"><span>📤 CSV dışa aktar</span><span>›</span></div>
273   <div class="set"><span>Download/FAN yedekle</span><span class="sw"></span></div>
274   <div class="set"><span class="warn">🧹 Öğrenmeyi sıfırla<small>Veri kalır, modeller sıfırlanır</small></span><span>›</span></di
↳ v>
275   <div class="set"><span class="danger">🗑 Tüm veriyi sil<small>Çift onay</small></span><span>›</span></div></div>
276  <div class="card"><div class="ct">ℹ Hakkında</div>
277   <div class="kv"><span>Paket</span><b>com.fan.yeni</b></div>
278   <div class="kv"><span>Sürüm</span><b>1.0</b></div>
279   <div class="kv"><span>Üyeler</span><b>🛢 8 · 🐍 10</b></div></div>
280 </div>
281 <div class="nav"><div><b>🏠</b>Ana</div><div><b>🏛</b>Meclisler</div><div><b>🔍</b>Keşif</div><div><b>▦</b>Grafik</div><div class=
↳ "on"><b>⚙</b>Ayarlar</div></div></div></div>
282
283 </div>
284 </body></html>
```

[Dosya #81/84] Proje Yolu: mockup/eski-overlay.png

BÖLÜM 11 · PNG Görsel

Kök: /home/user/FanSuper-FANLAB | Boyut: 95.662 B (93.4 KB) | Satır: İkili (Binary) SHA-256: 33df9b36a0502ba56f3cd0e992eca569…

Görsel Dosyası: mockup/eski-overlay.png | Çözünürlük: 960 × 1560 px (RGB) | Boyut: 95.662 bayt | SHA-256: 33df9b36a0502ba56f3cd0e9...

[Dosya #82/84] Proje Yolu: mockup/yeni-overlay.png

BÖLÜM 11 · PNG Görsel

Kök: /home/user/FanSuper-FANLAB | Boyut: 86.697 B (84.7 KB) | Satır: İkili (Binary) SHA-256: df3c39f3ebaa1e9ee0efbb57ff855c53…

Görsel Dosyası: mockup/yeni-overlay.png | Çözünürlük: 960 × 1560 px (RGB) | Boyut: 86.697 bayt | SHA-256: df3c39f3ebaa1e9ee0efbb57...

BÖLÜM 12: Geçmiş Veriler (Canlı Veri Kayıtları — CSV Dosyaları)

2 Dosya · 1.788 Satır · 755.8 KB

Uygulamanın ilk kurulumda yüklediği 893 geçmiş canlı veri kaydı (başlık satırıyla 894 satır, 76 sütun): app/src/main/assets/fan_data_live.csv ve kök dizindeki fan_data_live.csv.

GEÇMİŞ CANLI VERİ SETİ (fan_data_live.csv) ŞEMA VE İSTATİSTİK ÖZETİ

- Toplam Satır: 894 satır (1 başlık satırı + 893 geçmiş canlı kayıt) | Ayraç: '|' (pipe) | Sütun Sayısı: 77 sütun
- Zaman Aralığı: İlk Kayıt (id=1): 2026-07-24 14:51:04 → Son Kayıt (id=893): 2026-09-11 18:55:19
- Gerçekleşen Sayı (1..4) Dağılımı: Sayı 1: 222 kez (%24.9) | Sayı 2: 231 kez (%25.9) | Sayı 3: 231 kez (%25.9) | Sayı 4: 209 kez (%23.4)
- Birebir Doğrulama (app/src/main/assets/fan_data_live.csv == ./fan_data_live.csv): SHA-256 = 1debf2c44fd3b1709481a6bb20570cf9...
- 77 Sütun Başlığı (1..77):

1.id · 2.tarih · 3.sayi · 4.ensemble_tahmin · 5.ensemble_dogru · 6.ensemble_toplam_basari · 7.ensemble_basari · 8.ensemble_sec_dogru · 9.ensemble_sec_basari · 10.kombine_tahmin · 11.kombine_dogru · 12.kombine_basari · 13.kombine_sec_dogru · 14.kombine_sec_basari · 15.kalip_tahmin · 16.kalip_dogru · 17.kalip_basari · 18.yan_tahmin · 19.yan_dogru · 20.yan_basari · 21.rejim · 22.kalip · 23.rejim_dizisi · 24.anomali · 25.guven_ayarli · 26.Kalip_Arama_tahmin · 27.Kalip_Arama_dogru · 28.Kalip_Arama_basari · 29.Kalip_Arama_aktif · 30.Rejim_Tespiti_tahmin · 31.Rejim_Tespiti_dogru · 32.Rejim_Tespiti_basari · 33.Rejim_Tespiti_aktif · 34.Fark_Dizisi_tahmin · 35.Fark_Dizisi_dogru · 36.Fark_Dizisi_basari · 37.Fark_Dizisi_aktif · 38.Ayna_Kalip_tahmin · 39.Ayna_Kalip_dogru · 40.Ayna_Kalip_basari · 41.Ayna_Kalip_aktif · 42.Kume_Kaymasi_tahmin · 43.Kume_Kaymasi_dogru · 44.Kume_Kaymasi_basari · 45.Kume_Kaymasi_aktif · 46.Beklenti_Sapma_tahmin · 47.Beklenti_Sapma_dogru · 48.Beklenti_Sapma_basari · 49.Beklenti_Sapma_aktif · 50.Dalga_Tekrar_tahmin · 51.Dalga_Tekrar_dogru · 52.Dalga_Tekrar_basari · 53.Dalga_Tekrar_aktif · 54.Online_Gradient_tahmin · 55.Online_Gradient_dogru · 56.Online_Gradient_basari · 57.Online_Gradient_aktif · 58.Bayesian_tahmin · 59.Bayesian_dogru · 60.Bayesian_basari · 61.Bayesian_aktif · 62.Meta_Ogrenme_tahmin · 63.Meta_Ogrenme_dogru · 64.Meta_Ogrenme_basari · 65.Meta_Ogrenme_aktif · 66.Q_Learning_tahmin · 67.Q_Learning_dogru · 68.Q_Learning_basari · 69.Q_Learning_aktif · 70.Mini_Transformer_tahmin · 71.Mini_Transformer_dogru · 72.Mini_Transformer_basari · 73.Mini_Transformer_aktif · 74.Markov_tahmin · 75.Markov_dogru · 76.Markov_basari · 77.Markov_aktif

[Dosya #83/84] Proje Yolu: app/src/main/assets/fan_data_live.csv

BÖLÜM 12 · CSV Veri

Kök: /home/user/FanSuper-FANLAB | Boyut: 386.975 B (377.9 KB) | Satır: 894 satır SHA-256: 1debf2c44fd3b1709481a6bb20570cf9…

```
1 id|tarih|sayi|ensemble_tahmin|ensemble_dogru|ensemble_toplam_basari|ensemble_basari|ensemble_sec_dogru|ensemble_sec_basari|kombine_tahmin|kom
↳ bine_dogru|kombine_basari|kombine_sec_dogru|kombine_sec_basari|kalip_tahmin|kalip_dogru|kalip_basari|yan_tahmin|yan_dogru|yan_basari|rejim|ka
↳ lip|rejim_dizisi|anomali|guven_ayarli|Kalip_Arama_tahmin|Kalip_Arama_dogru|Kalip_Arama_basari|Kalip_Arama_aktif|Rejim_Tespiti_tahmin|Rejim_Te
↳ spiti_dogru|Rejim_Tespiti_basari|Rejim_Tespiti_aktif|Fark_Dizisi_tahmin|Fark_Dizisi_dogru|Fark_Dizisi_basari|Fark_Dizisi_aktif|Ayna_Kalip_tah
↳ min|Ayna_Kalip_dogru|Ayna_Kalip_basari|Ayna_Kalip_aktif|Kume_Kaymasi_tahmin|Kume_Kaymasi_dogru|Kume_Kaymasi_basari|Kume_Kaymasi_aktif|Beklent
↳ i_Sapma_tahmin|Beklenti_Sapma_dogru|Beklenti_Sapma_basari|Beklenti_Sapma_aktif|Dalga_Tekrar_tahmin|Dalga_Tekrar_dogru|Dalga_Tekrar_basari|Dal
↳ ga_Tekrar_aktif|Online_Gradient_tahmin|Online_Gradient_dogru|Online_Gradient_basari|Online_Gradient_aktif|Bayesian_tahmin|Bayesian_dogru|Baye
↳ sian_basari|Bayesian_aktif|Meta_Ogrenme_tahmin|Meta_Ogrenme_dogru|Meta_Ogrenme_basari|Meta_Ogrenme_aktif|Q_Learning_tahmin|Q_Learning_dogru|Q
↳ _Learning_basari|Q_Learning_aktif|Mini_Transformer_tahmin|Mini_Transformer_dogru|Mini_Transformer_basari|Mini_Transformer_aktif|Markov_tahmin
↳ |Markov_dogru|Markov_basari|Markov_aktif
2 1|2026-07-24 14:51:04|2|1/2|HAYIR|%0|%0|HAYIR|%0|1/2|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|K•T|EVET|%0|KAOS|NONE|||HAYIR|0|HAYIR|%0|EVET|0|HAYIR|%0|
↳ EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|
↳ %0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET
3 2|2026-07-24 14:51:05|3|1/2|HAYIR|%0|%0|EVET|%0|1/2|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|K•T|EVET|%0|KAOS_|NONE_0|||HAYIR|1|HAYIR|%0|EVET|1|HAYIR|%0
↳ |EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR
↳ |%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
4 3|2026-07-24 14:51:06|2|2/1|HAYIR|%0|%0|HAYIR|%0|2/1|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|K•C|EVET|%0|DALGA_TEK_SIM_1_TEKRAR|NONE_0|DALGA_TEK_SIM_1
↳ ||HAYIR|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAY
↳ IR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
5 4|2026-07-24 14:51:07|4|2/1|EVET|%0|%0|HAYIR|%0|4/2|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|B•C|EVET|%0|DONGU_YON|NONE_0|DONGU||HAYIR|1|HAYIR|%0|EVET|1
↳ |HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVE
↳ T|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
6 5|2026-07-24 14:51:09|2|2/4|HAYIR|%0|%0|HAYIR|%0|4/2|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|C|HAYIR|%0|DONGU_YON|NONE_0|DONGU||HAYIR|1|HAYIR|%0|EVET|
↳ 1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EV
↳ ET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET
7 6|2026-07-24 14:51:09|3|2|EVET|%0|%0|HAYIR|%0|2/3|EVET|%0|HAYIR|%0|2|EVET|%0|BT|HAYIR|%0|DONGU_YON|FRAGMENTARY_2|DONGU||HAYIR|2|EVET|%0|EVET|
↳ 1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|
↳ HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET
8 7|2026-07-24 14:51:09|2|2/3|HAYIR|%0|%0|HAYIR|%0|4/3|EVET|%0|HAYIR|%0|4|EVET|%0|K|EVET|%0|DONGU_YON|FRAGMENTARY_3|DONGU||HAYIR|4|EVET|%0|EVET
↳ |1|HAYIR|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVE
↳ T|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET
9 8|2026-07-24 14:51:10|4|2|HAYIR|%0|%0|HAYIR|%0|2/4|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|BC|HAYIR|%0|DONGU_TERS_YON|FRAGMENTARY_4|DONGU_TERS||HAYIR|2|
↳ HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2
↳ |HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET
10 9|2026-07-24 14:51:11|1|2/1|HAYIR|%0|%0|EVET|%0|2/4|HAYIR|%0|HAYIR|%0|1/2|EVET|%0|BC|HAYIR|%0|DONGU_TERS_YON|NONE_0|DONGU_TERS||HAYIR|1|EVET|
↳ %0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0
↳ |EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET
11 10|2026-07-24 14:51:11|1|1|HAYIR|%0|%0|HAYIR|%0|1/2|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|B|EVET|%0|TEPE_YON|NONE_0|TEPE||HAYIR|1|HAYIR|%0|EVET|1|HA
↳ YIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1
↳ |HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
12 11|2026-07-24 14:51:13|3|2|HAYIR|%0|%0|HAYIR|%0|2/1|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|K|EVET|%0|VADI_YON|NONE_0|DALGA_TEK_SIM_1>VADI||HAYIR|1|HA
↳ YIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|
↳ HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET
13 12|2026-07-24 14:51:13|3|2/3|HAYIR|%0|%0|EVET|%0|2/3|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|T|EVET|%0|VADI_YON|NONE_0|DONGU>VADI||HAYIR|1|HAYIR|%0|EVE
↳ T|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EV
↳ ET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET
14 13|2026-07-24 14:51:14|3|3/2|HAYIR|%0|%0|HAYIR|%0|3/2|HAYIR|%0|HAYIR|%0|1/2|EVET|%0|T|EVET|%0|VADI_YON|NONE_0|DONGU>VADI||HAYIR|1|EVET|%0|EVE
↳ T|1|EVET|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|
↳ 1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET
15 14|2026-07-24 14:51:15|1|1/3|HAYIR|%0|%0|HAYIR|%0|3/1|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|BT|HAYIR|%0|TEPE_YON|NONE_0|DONGU>TEPE||HAYIR|1|HAYIR|%0
↳ |EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR
↳ |%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET
16 15|2026-07-24 14:51:15|2|1/3|HAYIR|%0|%0|HAYIR|%0|4/3|EVET|%0|HAYIR|%0|1/2|HAYIR|%0|B|EVET|%0|VADI_YON|NONE_0|DONGU>VADI||HAYIR|1|HAYIR|%0|EV
↳ ET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|
↳ EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET
17 16|2026-07-24 14:51:15|4|2/1|EVET|%0|%0|HAYIR|%0|2/1|EVET|%0|HAYIR|%0|2/1|EVET|%0|K|EVET|%0|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|DONGU_TERS>BLOK_DUZ
↳ ||HAYIR|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|
↳ %0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 18 ve sonrası)

```
17|2026-07-24 14:51:16|2|3/4|HAYIR|%0|%0|EVET|%0|3/4|HAYIR|%0|EVET|%0|3|HAYIR|%0|BC|EVET|%0|TEPE_YON|FRAGMENTARY_3|DONGU_TERS>TEPE||HAYIR|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET
18|2026-07-24 14:51:20|4|2/1|EVET|%0|%0|HAYIR|%0|2/1|EVET|%0|HAYIR|%0|1/2|HAYIR|%0|KC|EVET|%0|VADI_YON|FRAGMENTARY_2|TEPE>VADI||HAYIR|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET
19|2026-07-24 14:51:20|2|4|EVET|%0|%0|HAYIR|%0|3/4|HAYIR|%0|EVET|%0|3|HAYIR|%0|BC|EVET|%0|DONGU_TERS_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>VADI>DONGU_TERS||HAYIR|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET
20|2026-07-24 14:51:21|4|2|HAYIR|%0|%0|EVET|%0|2/1|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|EVET|%0|DONGU_TERS_YON|FRAGMENTARY_2|DONGU>VADI>DONGU_TERS||HAYIR|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
21|2026-07-24 14:51:21|4|2/4|EVET|%0|%0|HAYIR|%0|2/4|EVET|%0|HAYIR|%0|1/2|HAYIR|%0|KC|EVET|%0|DONGU_TERS_YON|NONE_0|DONGU>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET
22|2026-07-24 14:51:22|2|4|HAYIR|%0|%0|EVET|%0|4/3|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|BC|EVET|%0|KOSEGEN_24_SALINIMM|FRAGMENTARY_2|DONGU_TERS>TEPE>KOSEGEN_24||HAYIR|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET
23|2026-07-24 14:51:22|2|4/2|HAYIR|%0|%0|HAYIR|%0|4/2|HAYIR|%0|HAYIR|%0|1/2|EVET|%0|BC|HAYIR|%0|VADI_YON|NONE_0|DONGU_TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
24|2026-07-24 14:51:37|1|2/3|HAYIR|%0|%0|EVET|%0|2/3|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|B•T|EVET|%0|TEPE_YON|NONE_0|DONGU>BLOK_DUZ>TEPE||HAYIR|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
25|2026-07-24 14:51:38|3|3/2|HAYIR|%0|%0|EVET|%0|3/2|HAYIR|%0|EVET|%0|3|HAYIR|%0|KT|EVET|%0|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI||HAYIR|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET
26|2026-07-24 14:51:39|2|4/2|HAYIR|%0|%0|HAYIR|%0|4|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|BC|HAYIR|%0|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
27|2026-07-24 14:51:42|1|3/2|HAYIR|%0|%0|HAYIR|%0|3|HAYIR|%0|HAYIR|%0|3|HAYIR|%0|T|EVET|%0|BLOK_TERS_TEKRAR|FRAGMENTARY_2|VADI>DONGU_TERS>BLOK_TERS|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET
28|2026-07-24 14:51:43|4|2/4|HAYIR|%0|%0|EVET|%0|2/4|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|KC|EVET|%0|DONGU_YON|NONE_0|BLOK_DUZ>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
29|2026-07-24 14:51:43|4|2/4|HAYIR|%0|%0|HAYIR|%0|2|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|EVET|%0|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU_TERS>VADI||HAYIR|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
30|2026-07-24 14:51:45|1|1/4|HAYIR|%0|%0|HAYIR|%0|1/3|HAYIR|%0|EVET|%0|1|HAYIR|%0|BC|EVET|%0|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>KOSEGEN_24>DONGU|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET
31|2026-07-24 14:51:46|3|2/3|EVET|%0|%0|HAYIR|%0|2/3|EVET|%0|HAYIR|%0|2|EVET|%0|K|EVET|%0|VADI_YON|FRAGMENTARY_2|VADI>TEPE>VADI|PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET
32|2026-07-24 14:51:47|2|4/2|HAYIR|%0|%0|HAYIR|%0|4/1|HAYIR|%0|EVET|%0|1|EVET|%0|BC|HAYIR|%0|VADI_YON|FRAGMENTARY_2|VADI>TEPE>VADI||HAYIR|1|EVET|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
33|2026-07-24 14:51:48|1|4/3|HAYIR|%0|%0|HAYIR|%0|4/3|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|B|HAYIR|%0|VADI_YON|FRAGMENTARY_4|TEPE>VADI>VADI||HAYIR|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET
34|2026-07-24 14:51:48|1|3/1|HAYIR|%0|%0|EVET|%0|3/1|HAYIR|%0|EVET|%0|3|HAYIR|%0|B|EVET|%0|TEPE_YON|FRAGMENTARY_2|DONGU>TEPE>TEPE|PATTERN_BREAK:0,63|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET
35|2026-07-24 14:51:49|1|3/1|EVET|%0|%0|HAYIR|%0|3/1|EVET|%0|HAYIR|%0|3|EVET|%0|T|EVET|%0|BLOK_TERS_TEKRAR|FRAGMENTARY_2|DONGU>BLOK_TERS>BLOK_TERS|PATTERN_BREAK:0,59|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
36|2026-07-24 14:51:53|3|3/2|HAYIR|%0|%0|HAYIR|%0|2/3|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KT|HAYIR|%0|VADI_YON|FRAGMENTARY_2|DONGU>DONGU>VADI||HAYIR|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET
37|2026-07-24 14:51:53|4|2/1|EVET|%0|%0|HAYIR|%0|2/4|EVET|%0|HAYIR|%0|1/2|HAYIR|%0|KC|EVET|%0|BLOK_DUZ_TEKRAR|NONE_0|VADI>VADI>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET
38|2026-07-24 14:51:54|2|2/1|HAYIR|%0|%0|HAYIR|%0|4/2|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%0|C|EVET|%0|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_2>DONGU>VADI||HAYIR|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
39|2026-07-24 14:51:55|3|2/1|HAYIR|%0|%0|HAYIR|%0|2/3|HAYIR|%0|EVET|%0|2|HAYIR|%0|K|HAYIR|%0|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
40|2026-07-24 14:51:56|3|3/2|HAYIR|%0|%0|HAYIR|%0|3/1|HAYIR|%0|HAYIR|%0|3|HAYIR|%0|K|HAYIR|%0|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|BLOK_TERS>VADI>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET
41|2026-07-24 14:51:58|4|2/4|EVET|%0|%0|HAYIR|%0|2|EVET|%0|HAYIR|%0|2|EVET|%0|KC|EVET|%0|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|VADI>VADI>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET
42|2026-07-24 14:51:59|2|3/4|HAYIR|%0|%0|EVET|%0|3/4|HAYIR|%0|EVET|%0|3|HAYIR|%0|B|EVET|%0|TEPE_YON|FRAGMENTARY_2|DONGU>TEPE>TEPE||HAYIR|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET
43|2026-07-24 14:52:00|4|2/4|HAYIR|%0|%0|HAYIR|%0|2/4|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|HAYIR|%0|DONGU_YON|FRAGMENTARY_2|TEPE>BLOK_TERS>DONGU|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
44|2026-07-24 14:52:02|3|2/3|HAYIR|%0|%0|HAYIR|%0|2/3|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|B•T|EVET|%0|DONGU_YON|NONE_0|VADI>VADI>DONGU|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET
45|2026-07-24 14:52:03|4|2/4|HAYIR|%0|%0|EVET|%0|2|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|EVET|%0|DONGU_YON|FRAGMENTARY_2|VADI>BLOK_DUZ>DONGU||HAYIR|2|HAYIR|%0|EVET|4|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET
46|2026-07-24 14:52:03|4|4/2|HAYIR|%0|%0|HAYIR|%0|2/1|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%0|C|HAYIR|%0|DONGU_YON|FRAGMENTARY_2|DALGA_TEK_SIM_3>VADI>DONGU|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
47|2026-07-24 14:52:05|3|4/3|HAYIR|%0|%0|HAYIR|%0|4/2|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|BC|HAYIR|%0|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET
48|2026-07-24 14:52:06|1|3/4|HAYIR|%0|%0|HAYIR|%0|2/3|EVET|%0|HAYIR|%0|2|EVET|%0|B|HAYIR|%0|DONGU_YON|FRAGMENTARY_2|VADI>BLOK_DUZ>DONGU|PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 50 ve sonrası)

```
50 49|2026-07-24 14:52:07|2|4/2|HAYIR|%0|%0|HAYIR|%0|4/1|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|BC|EVET|%0|TEPE_YON|FRAGMENTARY_3|TEPE>BLOK_DUZ>TEPE||HAYI
↳ R|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|
↳ EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
51 50|2026-07-24 14:52:09|3|2/3|EVET|%0|%0|HAYIR|%0|2/3|EVET|%0|HAYIR|%0|2/3|EVET|%0|B•C|EVET|%0|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI|PATT
↳ ERN_BREAK:0,61|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|E
↳ VET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET
52 51|2026-07-24 14:52:10|2|4/3|HAYIR|%0|%0|EVET|%0|4/1|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%0|BC|EVET|%0|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>TEPE|PA
↳ TTERN_BREAK:0,59|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%
↳ 0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
53 52|2026-07-24 14:52:11|3|2/3|HAYIR|%0|%0|HAYIR|%0|2/3|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%0|K•C|EVET|%0|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU>VADI|P
↳ ATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR
↳ |%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
54 53|2026-07-24 14:52:12|4|2/4|HAYIR|%0|%0|HAYIR|%0|2/4|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|EVET|%0|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU>VADI|PATT
↳ ERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0
↳ |EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
55 54|2026-07-24 14:52:14|1|3/1|HAYIR|%40|%0|EVET|%40|3/1|HAYIR|%0|EVET|%20|3|HAYIR|%0|B•C|HAYIR|%60|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU>TEPE|PATT
↳ ERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|
↳ EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET
56 55|2026-07-24 14:52:16|1|3/1|EVET|%50|%16|HAYIR|%33|3/1|EVET|%16|HAYIR|%16|3|EVET|%16|B•C|EVET|%83|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>TEP
↳ E|PATTERN_BREAK:0,59|EVET|3|EVET|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0
↳ |EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET
57 56|2026-07-24 14:52:20|3|2/4|HAYIR|%42|%14|HAYIR|%28|2/3|HAYIR|%14|HAYIR|%14|3/2|HAYIR|%14|C|HAYIR|%57|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|VADI>DON
↳ GU>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0
↳ |EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
58 57|2026-07-24 14:52:20|1|2/1|HAYIR|%37|%12|HAYIR|%25|2/1|HAYIR|%12|HAYIR|%12|2|HAYIR|%12|T|EVET|%62|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE
↳ |REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|E
↳ VET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
59 58|2026-07-24 14:52:21|3|2/4|HAYIR|%44|%11|EVET|%33|2/4|HAYIR|%11|EVET|%22|2/4|HAYIR|%11|K•T|HAYIR|%55|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|
↳ PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYI
↳ R|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET
60 59|2026-07-24 14:52:22|4|2/4|HAYIR|%40|%10|HAYIR|%30|2/4|HAYIR|%10|HAYIR|%20|2|HAYIR|%10|K•C|HAYIR|%50|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE
↳ >TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
↳ |4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
61 60|2026-07-24 14:52:29|3|4/1|EVET|%45|%18|HAYIR|%27|4/1|EVET|%18|HAYIR|%18|4|EVET|%18|K•T|HAYIR|%45|VADI_YON|FRAGMENTARY_2|DONGU>VADI>VADI|PA
↳ TTERN_BREAK:0,59|EVET|4|EVET|%20|EVET|4|EVET|%0|EVET|4|EVET|%40|EVET|2|HAYIR|%20|EVET|4|EVET|%20|EVET|1|HAYIR|%20|EVET|4|EVET|%60|EVET|4|EVET
↳ |%20|EVET|4|EVET|%20|EVET|4|EVET|%20|EVET|1|HAYIR|%20|EVET|3|HAYIR|%20|EVET|4|EVET|%20|EVET
62 61|2026-07-24 14:52:30|4|4/2|HAYIR|%50|%16|EVET|%33|4/2|HAYIR|%16|EVET|%25|4/2|HAYIR|%16|K•T|EVET|%50|DONGU_TERS_YON|FRAGMENTARY_2|DONGU>VADI
↳ >DONGU_TERS|PATTERN_BREAK:0,59|EVET|4|HAYIR|%33|EVET|4|HAYIR|%16|EVET|1|HAYIR|%50|EVET|4|HAYIR|%16|EVET|4|HAYIR|%33|EVET|4|HAYIR|%16|EVET|3|H
↳ AYIR|%66|EVET|4|HAYIR|%33|EVET|2|EVET|%33|EVET|4|HAYIR|%33|EVET|4|HAYIR|%16|EVET|3|HAYIR|%16|EVET|2|EVET|%33|EVET
63 62|2026-07-24 14:52:30|2|4/3|HAYIR|%53|%15|EVET|%38|4/3|HAYIR|%15|EVET|%30|4/3|HAYIR|%15|BT|EVET|%53|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>D
↳ ONGU_TERS|PATTERN_BREAK:0,59|EVET|4|HAYIR|%28|EVET|4|HAYIR|%14|EVET|4|HAYIR|%42|EVET|4|HAYIR|%14|EVET|3|EVET|%28|EVET|4|HAYIR|%14|EVET|3|EVET
↳ |%57|EVET|4|HAYIR|%28|EVET|4|HAYIR|%42|EVET|4|HAYIR|%28|EVET|4|HAYIR|%14|EVET|2|HAYIR|%14|EVET|4|HAYIR|%42|EVET
64 63|2026-07-24 14:52:33|3|4/3|HAYIR|%50|%14|HAYIR|%35|2/3|HAYIR|%14|HAYIR|%28|2/3|HAYIR|%14|B|HAYIR|%50|DONGU_TERS_YON|FRAGMENTARY_2|DALGA_TEK
↳ _SIM_1>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%25|EVET|4|HAYIR|%12|EVET|3|HAYIR|%37|EVET|1|EVET|%12|EVET|3|HAYIR|%37|EVET|3|HAYIR|%1
↳ 2|EVET|4|HAYIR|%62|EVET|4|HAYIR|%25|EVET|4|HAYIR|%37|EVET|3|HAYIR|%25|EVET|3|HAYIR|%12|EVET|3|HAYIR|%12|EVET|2|HAYIR|%37|EVET
65 64|2026-07-24 14:52:34|1|2/3|HAYIR|%46|%13|HAYIR|%33|2/3|HAYIR|%13|HAYIR|%26|2|HAYIR|%13|B|EVET|%53|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_TERS>BL
↳ OK_DUZ>DONGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%22|EVET|3|HAYIR|%11|EVET|2|HAYIR|%33|EVET|1|EVET|%22|EVET|2|HAYIR|%33|EVET|2|HAYIR|%11|EVE
↳ T|3|HAYIR|%55|EVET|3|HAYIR|%22|EVET|3|HAYIR|%33|EVET|2|HAYIR|%22|EVET|1|EVET|%11|EVET|3|HAYIR|%11|EVET|2|HAYIR|%33|EVET
66 65|2026-07-24 14:52:35|1|3/1|HAYIR|%50|%12|EVET|%37|3/1|HAYIR|%12|EVET|%31|3|HAYIR|%12|BT|EVET|%56|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>DON
↳ GU_TERS|PATTERN_BREAK:0,59|EVET|3|HAYIR|%20|EVET|4|HAYIR|%10|EVET|4|HAYIR|%30|EVET|3|HAYIR|%30|EVET|3|HAYIR|%10|EVET|3|HAYIR
↳ |%50|EVET|3|HAYIR|%20|EVET|1|EVET|%30|EVET|3|HAYIR|%20|EVET|1|EVET|%20|EVET|4|HAYIR|%10|EVET|3|HAYIR|%30|EVET
67 66|2026-07-24 14:52:35|1|3/1|HAYIR|%47|%11|HAYIR|%35|3/1|HAYIR|%11|HAYIR|%29|3|HAYIR|%11|BT|HAYIR|%52|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>
↳ DONGU_TERS|PATTERN_BREAK:0,59|EVET|3|HAYIR|%18|EVET|4|HAYIR|%9|EVET|3|HAYIR|%27|EVET|3|HAYIR|%27|EVET|3|HAYIR|%27|EVET|3|HAYIR|%9|EVET|3|HAYI
↳ R|%45|EVET|1|HAYIR|%18|EVET|1|HAYIR|%36|EVET|3|HAYIR|%18|EVET|3|HAYIR|%27|EVET|1|HAYIR|%9|EVET|1|HAYIR|%27|EVET
68 67|2026-07-24 14:52:46|2|4/3|HAYIR|%44|%11|HAYIR|%33|3/4|HAYIR|%11|HAYIR|%27|3|HAYIR|%11|B|HAYIR|%50|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PA
↳ TTERN_BREAK:0,59|EVET|3|HAYIR|%16|EVET|4|HAYIR|%8|EVET|4|HAYIR|%25|EVET|4|HAYIR|%25|EVET|3|HAYIR|%25|EVET|3|HAYIR|%8|EVET|3|HAYIR|%41|EVET|1|
↳ HAYIR|%16|EVET|4|HAYIR|%33|EVET|4|HAYIR|%16|EVET|1|HAYIR|%25|EVET|1|HAYIR|%8|EVET|3|HAYIR|%25|EVET
69 68|2026-07-24 14:52:47|2|3/1|HAYIR|%47|%10|EVET|%36|1/3|EVET|%15|HAYIR|%26|1|EVET|%15|K•T|EVET|%52|VADI_YON|FRAGMENTARY_2|DONGU>VADI>VADI|PAT
↳ TERN_BREAK:0,59|EVET|1|EVET|%15|EVET|4|HAYIR|%7|EVET|1|EVET|%23|EVET|3|HAYIR|%23|EVET|1|EVET|%23|EVET|1|EVET|%7|EVET|1|EVET|%38|EVET|1|EVET|%
↳ 15|EVET|4|HAYIR|%30|EVET|1|EVET|%15|EVET|1|EVET|%23|EVET|2|HAYIR|%7|EVET|4|HAYIR|%23|EVET
70 69|2026-07-24 14:52:48|1|3|HAYIR|%50|%10|EVET|%40|3/1|HAYIR|%15|EVET|%30|3/4|HAYIR|%15|T|EVET|%55|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TEPE
↳ ||HAYIR|3|HAYIR|%21|EVET|4|HAYIR|%7|EVET|3|HAYIR|%28|EVET|3|HAYIR|%21|EVET|3|HAYIR|%28|EVET|3|HAYIR|%14|EVET|3|HAYIR|%42|EVET|1|EVET|%21|EVET
↳ |1|EVET|%28|EVET|3|HAYIR|%21|EVET|3|HAYIR|%28|EVET|1|EVET|%7|EVET|1|EVET|%21|EVET
71 70|2026-07-24 14:52:49|1|1|HAYIR|%47|%9|HAYIR|%38|1/3|HAYIR|%14|HAYIR|%28|1/3|HAYIR|%14|KT|EVET|%57|VADI_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>VA
↳ DI||HAYIR|1|HAYIR|%20|EVET|4|HAYIR|%6|EVET|1|HAYIR|%26|EVET|1|HAYIR|%20|EVET|1|HAYIR|%26|EVET|1|HAYIR|%13|EVET|3|HAYIR|%40|EVET|1|HAYIR|%26|E
↳ VET|1|HAYIR|%33|EVET|1|HAYIR|%20|EVET|1|HAYIR|%26|EVET|1|HAYIR|%13|EVET|1|HAYIR|%26|EVET
72 71|2026-07-24 14:52:50|2|2/1|HAYIR|%45|%9|HAYIR|%36|2/3|HAYIR|%13|EVET|%31|2|HAYIR|%13|KT|EVET|%59|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEP
↳ E||HAYIR|2|HAYIR|%18|EVET|4|HAYIR|%6|EVET|2|HAYIR|%25|EVET|1|HAYIR|%18|EVET|2|HAYIR|%25|EVET|2|HAYIR|%12|EVET|3|EVET|%37|EVET|1|HAYIR|%25|EVE
↳ T|4|HAYIR|%31|EVET|2|HAYIR|%18|EVET|2|HAYIR|%25|EVET|1|HAYIR|%12|EVET|3|EVET|%25|EVET
73 72|2026-07-24 14:52:53|3|2/4|HAYIR|%43|%8|HAYIR|%34|2/4|HAYIR|%13|HAYIR|%30|2|HAYIR|%13|K|EVET|%60|DONGU_YON|FRAGMENTARY_2|VADI>DONGU_TERS>DO
↳ NGU|PATTERN_BREAK:0,59|EVET|2|HAYIR|%17|EVET|4|HAYIR|%5|EVET|4|HAYIR|%23|EVET|1|EVET|%17|EVET|2|HAYIR|%23|EVET|2|HAYIR|%11|EVET|4|HAYIR|%41|E
↳ VET|1|EVET|%23|EVET|4|HAYIR|%29|EVET|2|HAYIR|%17|EVET|2|HAYIR|%23|EVET|1|EVET|%11|EVET|2|HAYIR|%29|EVET
74 73|2026-07-24 14:52:54|1|1/2|HAYIR|%45|%8|EVET|%37|1/2|HAYIR|%12|EVET|%33|1/2|HAYIR|%12|K•T|EVET|%62|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>
↳ DONGU||HAYIR|1|HAYIR|%16|EVET|1|HAYIR|%5|EVET|2|EVET|%22|EVET|1|HAYIR|%22|EVET|1|HAYIR|%22|EVET|1|HAYIR|%11|EVET|3|HAYIR|%38|EVET|1|HAYIR|%27
↳ |EVET|1|HAYIR|%27|EVET|1|HAYIR|%16|EVET|1|HAYIR|%22|EVET|1|HAYIR|%16|EVET|2|EVET|%27|EVET
75 74|2026-07-24 14:52:56|2|3/4|HAYIR|%44|%8|HAYIR|%36|3/4|HAYIR|%12|HAYIR|%32|3/2|HAYIR|%12|T|HAYIR|%60|DONGU_YON|FRAGMENTARY_2|DONGU>DONGU_TER
↳ S>DONGU|PATTERN_BREAK:0,59|EVET|3|HAYIR|%15|EVET|1|HAYIR|%5|EVET|4|HAYIR|%26|EVET|1|HAYIR|%21|EVET|3|HAYIR|%21|EVET|3|HAYIR|%10|EVET|3|HAYIR|
↳ %36|EVET|2|EVET|%26|EVET|3|HAYIR|%26|EVET|4|HAYIR|%15|EVET|3|HAYIR|%21|EVET|2|EVET|%15|EVET|3|HAYIR|%31|EVET
76 75|2026-07-24 14:52:57|2|1/3|HAYIR|%46|%7|EVET|%38|1/3|HAYIR|%11|EVET|%34|1|HAYIR|%11|KT|EVET|%61|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|PAT
↳ TERN_BREAK:0,59|EVET|1|HAYIR|%15|EVET|1|HAYIR|%5|EVET|3|EVET|%25|EVET|1|HAYIR|%20|EVET|1|HAYIR|%20|EVET|1|HAYIR|%10|EVET|1|HAYIR|%35|EVET|1|H
↳ AYIR|%30|EVET|3|EVET|%25|EVET|1|HAYIR|%15|EVET|1|HAYIR|%20|EVET|2|HAYIR|%20|EVET|1|HAYIR|%30|EVET
77 76|2026-07-24 14:52:58|3|1/2|HAYIR|%48|%7|EVET|%40|2/1|EVET|%14|HAYIR|%33|1/2|HAYIR|%11|KT|EVET|%62|DONGU_YON|FRAGMENTARY_2|TEPE>VADI>DONGU|P
↳ ATTERN_BREAK:0,59|EVET|1|HAYIR|%14|EVET|4|HAYIR|%4|EVET|1|HAYIR|%28|EVET|1|HAYIR|%19|EVET|2|EVET|%19|EVET|2|EVET|%9|EVET|4|HAYIR|%33|EVET|2|E
↳ VET|%28|EVET|4|HAYIR|%28|EVET|1|HAYIR|%14|EVET|1|HAYIR|%19|EVET|2|EVET|%19|EVET|1|HAYIR|%28|EVET
78 77|2026-07-24 14:52:59|2|3/2|HAYIR|%46|%7|HAYIR|%39|4/3|EVET|%17|HAYIR|%32|4/3|EVET|%14|K|HAYIR|%60|DONGU_YON|FRAGMENTARY_2|DONGU>TEPE>DONGU|
↳ PATTERN_BREAK:0,59|EVET|4|EVET|%13|EVET|2|HAYIR|%4|EVET|3|HAYIR|%27|EVET|1|HAYIR|%18|EVET|4|EVET|%22|EVET|4|EVET|%13|EVET|3|HAYIR|%31|EVET|2|
↳ HAYIR|%31|EVET|3|HAYIR|%27|EVET|3|HAYIR|%13|EVET|4|EVET|%18|EVET|2|HAYIR|%22|EVET|4|EVET|%27|EVET
79 78|2026-07-24 14:53:00|4|2/3|HAYIR|%44|%6|HAYIR|%37|2/1|HAYIR|%17|EVET|%34|2/1|HAYIR|%13|K•T|EVET|%62|DONGU_YON|FRAGMENTARY_2|DONGU_TERS>VADI
↳ >DONGU|PATTERN_BREAK:0,59|EVET|2|HAYIR|%17|EVET|2|HAYIR|%4|EVET|1|EVET|%26|EVET|3|HAYIR|%17|EVET|2|HAYIR|%26|EVET|2|HAYIR|%17|EVET|2|HAYIR|%3
↳ 0|EVET|2|HAYIR|%30|EVET|2|HAYIR|%26|EVET|2|HAYIR|%13|EVET|1|EVET|%21|EVET|2|HAYIR|%21|EVET|2|HAYIR|%30|EVET
80 79|2026-07-24 14:53:02|1|1/3|HAYIR|%43|%6|HAYIR|%36|1/3|HAYIR|%16|HAYIR|%33|1|HAYIR|%13|T|EVET|%63|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>TEP
↳ E|PATTERN_BREAK:0,59|EVET|1|HAYIR|%16|EVET|1|HAYIR|%4|EVET|1|HAYIR|%29|EVET|4|HAYIR|%16|EVET|1|HAYIR|%25|EVET|1|HAYIR|%16|EVET|2|EVET|%29|EVE
↳ T|1|HAYIR|%29|EVET|1|HAYIR|%25|EVET|1|HAYIR|%12|EVET|1|HAYIR|%25|EVET|2|EVET|%20|EVET|1|HAYIR|%29|EVET
81 80|2026-07-24 14:53:03|2|2/1|HAYIR|%41|%6|HAYIR|%35|2/3|HAYIR|%16|EVET|%35|2/3|HAYIR|%12|B•C|EVET|%64|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|DONGU_TER
↳ S>DONGU>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|2|HAYIR|%16|EVET|1|HAYIR|%4|EVET|1|HAYIR|%28|EVET|1|HAYIR|%16|EVET|2|HAYIR|%24|EVE
↳ T|2|HAYIR|%16|EVET|3|EVET|%32|EVET|2|HAYIR|%28|EVET|3|EVET|%24|EVET|2|HAYIR|%12|EVET|1|HAYIR|%24|EVET|1|HAYIR|%24|EVET|3|EVET|%28|EVET
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 82 ve sonrası)

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82 81|2026-07-24 14:53:07|3|2/1|HAYIR|%43|%6|EVET|%37|2/1|HAYIR|%15|EVET|%37|2/1|HAYIR|%12|KC|EVET|%65|VADI_YON|FRAGMENTARY_2|TEPE>DONGU>VADI|RE
↳ GIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|2|HAYIR|%15|EVET|1|EVET|%3|EVET|1|EVET|%26|EVET|4|HAYIR|%15|EVET|2|HAYIR|%23|EVET|2|HAYIR|%15|EVET|4|
↳ HAYIR|%34|EVET|2|HAYIR|%26|EVET|2|HAYIR|%26|EVET|1|EVET|%11|EVET|2|HAYIR|%23|EVET|2|HAYIR|%23|EVET|2|HAYIR|%30|EVET
83 82|2026-07-24 14:53:09|1|2/1|HAYIR|%45|%6|EVET|%39|2/1|HAYIR|%15|EVET|%39|2|HAYIR|%12|K|EVET|%66|DONGU_TERS_YON|FRAGMENTARY_2|VADI>DONGU>DONG
↳ U_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%14|EVET|1|EVET|%7|EVET|2|HAYIR|%29|EVET|4|HAYIR|%14|EVET|2|HAYIR|%22|EVET|2|HAYIR|%14|EVET|2|HAYIR|%3
↳ 3|EVET|1|EVET|%25|EVET|2|HAYIR|%25|EVET|2|HAYIR|%14|EVET|2|HAYIR|%22|EVET|1|EVET|%22|EVET|2|HAYIR|%29|EVET
84 83|2026-07-24 14:53:10|1|1/2|EVET|%47|%8|HAYIR|%38|1/2|EVET|%17|HAYIR|%38|1/3|EVET|%14|K•T|EVET|%67|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>DON
↳ GU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|1|EVET|%14|EVET|1|EVET|%10|EVET|1|EVET|%28|EVET|1|EVET|%14|EVET|1|EVET|%21|EVET|1|EVET|%14|EVET|2|HAYIR
↳ |%32|EVET|1|EVET|%28|EVET|1|EVET|%25|EVET|1|EVET|%14|EVET|1|EVET|%21|EVET|1|EVET|%25|EVET|2|HAYIR|%28|EVET
85 84|2026-07-24 14:53:12|1|2/1|HAYIR|%45|%8|HAYIR|%37|2/1|HAYIR|%17|HAYIR|%37|2/3|HAYIR|%14|K|HAYIR|%65|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU>T
↳ EPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%17|EVET|1|HAYIR|%13|EVET|2|HAYIR|%31|EVET|2|HAYIR|%17|EVET|2|HAYIR|%24|EVET|2|HAYIR|%17|EVET|2|HAYIR|%31
↳ |EVET|1|HAYIR|%31|EVET|1|HAYIR|%27|EVET|2|HAYIR|%17|EVET|3|EVET|%24|EVET|1|HAYIR|%27|EVET|1|HAYIR|%27|EVET
86 85|2026-07-24 14:53:15|3|1/4|HAYIR|%47|%8|EVET|%38|4/1|EVET|%19|HAYIR|%36|4/1|EVET|%16|K|HAYIR|%63|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>DON
↳ GU>VADI|PATTERN_BREAK:0,59|EVET|4|EVET|%16|EVET|1|HAYIR|%13|EVET|4|EVET|%30|EVET|2|HAYIR|%16|EVET|4|EVET|%23|EVET|4|EVET|%16|EVET|1|HAYIR|%30
↳ |EVET|1|HAYIR|%30|EVET|1|HAYIR|%26|EVET|1|HAYIR|%16|EVET|1|HAYIR|%26|EVET|1|HAYIR|%26|EVET|4|EVET|%26|EVET
87 86|2026-07-24 14:53:17|4|2|EVET|%48|%10|HAYIR|%37|2/1|EVET|%21|HAYIR|%35|2|EVET|%18|K•T|EVET|%64|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_TERS>DONGU
↳ >DONGU_TERS||HAYIR|2|EVET|%19|EVET|1|HAYIR|%12|EVET|2|EVET|%32|EVET|4|HAYIR|%16|EVET|2|EVET|%25|EVET|2|EVET|%19|EVET|2|EVET|%29|EVET|1|HAYIR|
↳ %29|EVET|2|EVET|%25|EVET|2|EVET|%16|EVET|3|HAYIR|%25|EVET|1|HAYIR|%25|EVET|2|EVET|%29|EVET
88 87|2026-07-24 14:53:20|2|3|HAYIR|%47|%10|HAYIR|%36|3/4|HAYIR|%21|HAYIR|%34|3|HAYIR|%18|T|HAYIR|%63|TEPE_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>TEP
↳ E>TEPE||HAYIR|3|HAYIR|%21|EVET|1|HAYIR|%12|EVET|3|HAYIR|%34|EVET|1|HAYIR|%15|EVET|3|HAYIR|%28|EVET|3|HAYIR|%21|EVET|3|HAYIR|%31|EVET|1|HAYIR|
↳ %28|EVET|3|HAYIR|%28|EVET|3|HAYIR|%18|EVET|3|HAYIR|%25|EVET|1|HAYIR|%25|EVET|3|HAYIR|%31|EVET
89 88|2026-07-24 14:53:21|2|2/1|EVET|%48|%12|HAYIR|%35|1/3|HAYIR|%20|HAYIR|%33|1|HAYIR|%17|KT|EVET|%64|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>BLOK_DUZ>
↳ VADI|PATTERN_BREAK:0,59|EVET|1|HAYIR|%21|EVET|3|HAYIR|%12|EVET|2|EVET|%33|EVET|1|HAYIR|%15|EVET|1|HAYIR|%27|EVET|1|HAYIR|%21|EVET|3|HAYIR|%30
↳ |EVET|2|EVET|%27|EVET|3|HAYIR|%27|EVET|1|HAYIR|%18|EVET|1|HAYIR|%24|EVET|2|EVET|%24|EVET|1|HAYIR|%30|EVET
90 89|2026-07-24 14:53:22|2|4/3|HAYIR|%47|%12|HAYIR|%35|1/3|EVET|%22|HAYIR|%32|1|EVET|%20|B•C|HAYIR|%62|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PA
↳ TTERN_BREAK:0,59|EVET|1|EVET|%20|EVET|1|EVET|%11|EVET|4|HAYIR|%35|EVET|1|EVET|%14|EVET|1|EVET|%26|EVET|1|EVET|%20|EVET|3|HAYIR|%29|EVET|2|HAY
↳ IR|%29|EVET|3|HAYIR|%26|EVET|1|EVET|%17|EVET|1|EVET|%23|EVET|2|HAYIR|%26|EVET|1|EVET|%29|EVET
91 90|2026-07-24 14:53:25|1|1/3|HAYIR|%48|%12|EVET|%36|1/3|HAYIR|%21|EVET|%34|1|HAYIR|%19|K|EVET|%63|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEPE
↳ |PATTERN_BREAK:0,59|EVET|1|HAYIR|%22|EVET|1|HAYIR|%14|EVET|1|HAYIR|%34|EVET|3|EVET|%17|EVET|1|HAYIR|%28|EVET|1|HAYIR|%22|EVET|2|HAYIR|%28|EVE
↳ T|2|HAYIR|%28|EVET|1|HAYIR|%25|EVET|1|HAYIR|%20|EVET|1|HAYIR|%25|EVET|2|HAYIR|%25|EVET|1|HAYIR|%31|EVET
92 91|2026-07-24 14:53:28|3|2/4|HAYIR|%47|%11|HAYIR|%35|2/4|HAYIR|%21|HAYIR|%33|2/4|HAYIR|%19|KC|HAYIR|%61|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TER
↳ S>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%22|EVET|1|HAYIR|%13|EVET|4|HAYIR|%33|EVET|3|EVET|%19|EVET|2|HAYIR|%27|EVET|2|HAYIR|%22|EVET|1|HAYIR|%
↳ 27|EVET|2|HAYIR|%27|EVET|4|HAYIR|%25|EVET|2|HAYIR|%19|EVET|2|HAYIR|%25|EVET|2|HAYIR|%25|EVET|4|HAYIR|%30|EVET
93 92|2026-07-24 14:53:29|3|1/3|HAYIR|%48|%11|EVET|%37|3/1|EVET|%23|HAYIR|%32|3/4|EVET|%20|K•T|EVET|%62|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEP
↳ E|PATTERN_BREAK:0,59|EVET|3|EVET|%21|EVET|3|EVET|%13|EVET|1|HAYIR|%32|EVET|4|HAYIR|%21|EVET|3|EVET|%27|EVET|3|EVET|%21|EVET|4|HAYIR|%27|EVET|
↳ 1|HAYIR|%27|EVET|4|HAYIR|%24|EVET|3|EVET|%18|EVET|3|EVET|%24|EVET|2|HAYIR|%24|EVET|4|HAYIR|%29|EVET
94 93|2026-07-24 14:53:32|3|1/2|HAYIR|%47|%11|HAYIR|%36|1/3|HAYIR|%22|HAYIR|%31|1/3|HAYIR|%20|K|HAYIR|%61|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|
↳ PATTERN_BREAK:0,59|EVET|1|HAYIR|%23|EVET|2|HAYIR|%15|EVET|1|HAYIR|%31|EVET|4|EVET|%21|EVET|1|HAYIR|%28|EVET|1|HAYIR|%23|EVET|1|HAYIR|%26|EVET
↳ |2|HAYIR|%26|EVET|4|EVET|%23|EVET|1|HAYIR|%21|EVET|1|HAYIR|%26|EVET|2|HAYIR|%23|EVET|3|HAYIR|%28|EVET
95 94|2026-07-24 14:53:33|4|2/4|HAYIR|%48|%11|EVET|%37|2/3|HAYIR|%22|HAYIR|%31|2|HAYIR|%20|KC|EVET|%62|VADI_YON|FRAGMENTARY_2|DONGU>DONGU_TERS>V
↳ ADI||HAYIR|2|HAYIR|%23|EVET|2|HAYIR|%15|EVET|4|EVET|%30|EVET|4|EVET|%23|EVET|2|HAYIR|%28|EVET|2|HAYIR|%23|EVET|2|HAYIR|%25|EVET|2|HAYIR|%25|E
↳ VET|2|HAYIR|%25|EVET|2|HAYIR|%20|EVET|2|HAYIR|%25|EVET|2|HAYIR|%23|EVET|2|HAYIR|%28|EVET
96 95|2026-07-24 14:53:34|4|3/1|HAYIR|%47|%10|HAYIR|%36|3/2|HAYIR|%21|HAYIR|%30|3/2|HAYIR|%19|T|HAYIR|%60|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|
↳ PATTERN_BREAK:0,59|EVET|3|HAYIR|%22|EVET|2|HAYIR|%15|EVET|3|HAYIR|%32|EVET|1|HAYIR|%25|EVET|3|HAYIR|%27|EVET|3|HAYIR|%22|EVET|2|HAYIR|%25|EVE
↳ T|2|HAYIR|%25|EVET|2|HAYIR|%25|EVET|3|HAYIR|%20|EVET|3|HAYIR|%25|EVET|1|HAYIR|%22|EVET|2|HAYIR|%27|EVET
97 96|2026-07-24 14:53:35|4|1/2|HAYIR|%48|%10|EVET|%38|2/1|EVET|%23|HAYIR|%29|2/3|EVET|%21|B•C|EVET|%61|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PA
↳ TTERN_BREAK:0,59|EVET|2|EVET|%21|EVET|2|EVET|%14|EVET|1|HAYIR|%31|EVET|3|HAYIR|%24|EVET|3|HAYIR|%26|EVET|1|HAYIR|%21|EVET|2|EVET|%24|EVET|4|H
↳ AYIR|%24|EVET|2|EVET|%24|EVET|2|EVET|%19|EVET|1|HAYIR|%24|EVET|1|HAYIR|%21|EVET|2|EVET|%26|EVET
98 97|2026-07-24 14:53:37|2|3/4|HAYIR|%47|%10|HAYIR|%37|3/2|HAYIR|%22|HAYIR|%29|2/3|HAYIR|%20|B•C|HAYIR|%60|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEP
↳ E|PATTERN_BREAK:0,59|EVET|2|HAYIR|%23|EVET|2|HAYIR|%16|EVET|3|HAYIR|%30|EVET|1|EVET|%23|EVET|2|HAYIR|%26|EVET|2|HAYIR|%21|EVET|3|HAYIR|%26|EV
↳ ET|3|HAYIR|%23|EVET|3|HAYIR|%26|EVET|2|HAYIR|%21|EVET|2|HAYIR|%23|EVET|1|EVET|%21|EVET|3|HAYIR|%28|EVET
99 98|2026-07-24 14:53:38|1|1/3|EVET|%48|%12|HAYIR|%36|1/3|EVET|%24|HAYIR|%28|3/1|HAYIR|%20|T|EVET|%61|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|3|HAYIR|%23|EVET|2|HAYIR|%16|EVET|1|EVET|%30|EVET|3|HAYIR|%25|EVET|1|EVET|%25|EVET|1|EVET|%20|EVET|2|HAYIR|%25|EVET|1|EV
↳ ET|%23|EVET|1|EVET|%25|EVET|3|HAYIR|%20|EVET|1|EVET|%23|EVET|1|EVET|%23|EVET|1|EVET|%27|EVET
100 99|2026-07-24 14:53:40|1|2/1|HAYIR|%48|%12|HAYIR|%36|1/3|HAYIR|%24|EVET|%30|1/3|HAYIR|%20|B•C|EVET|%62|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|
↳ PATTERN_BREAK:0,59|EVET|1|HAYIR|%22|EVET|1|HAYIR|%15|EVET|2|HAYIR|%31|EVET|3|EVET|%25|EVET|1|HAYIR|%27|EVET|1|HAYIR|%22|EVET|2|HAYIR|%25|EVET
↳ |1|HAYIR|%25|EVET|1|HAYIR|%27|EVET|2|HAYIR|%20|EVET|2|HAYIR|%25|EVET|1|HAYIR|%25|EVET|1|HAYIR|%29|EVET
101 100|2026-07-24 14:53:44|3|4/1|EVET|%49|%13|HAYIR|%35|4/3|EVET|%25|HAYIR|%29|4/3|EVET|%21|K|EVET|%62|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEP
↳ E||HAYIR|4|EVET|%22|EVET|3|HAYIR|%15|EVET|4|EVET|%31|EVET|1|HAYIR|%26|EVET|1|HAYIR|%26|EVET|4|EVET|%22|EVET|1|HAYIR|%24|EVET|1|HAYIR|%24|EVET
↳ |4|EVET|%26|EVET|1|HAYIR|%20|EVET|4|EVET|%24|EVET|1|HAYIR|%24|EVET|4|EVET|%28|EVET
102 101|2026-07-24 14:53:51|4|2/4|HAYIR|%48|%13|HAYIR|%34|2/4|HAYIR|%25|HAYIR|%28|2|HAYIR|%21|C|HAYIR|%61|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VA
↳ DI|PATTERN_BREAK:0,59|EVET|2|HAYIR|%23|EVET|4|HAYIR|%15|EVET|2|HAYIR|%32|EVET|4|HAYIR|%26|EVET|2|HAYIR|%26|EVET|2|HAYIR|%23|EVET|2|HAYIR|%23|
↳ EVET|4|HAYIR|%23|EVET|2|HAYIR|%28|EVET|2|HAYIR|%19|EVET|2|HAYIR|%26|EVET|1|HAYIR|%23|EVET|2|HAYIR|%30|EVET
103 102|2026-07-24 14:53:53|3|4/1|HAYIR|%47|%13|HAYIR|%33|4/1|HAYIR|%24|HAYIR|%28|4|HAYIR|%20|T|EVET|%62|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VAD
↳ I|PATTERN_BREAK:0,59|EVET|4|HAYIR|%23|EVET|4|HAYIR|%14|EVET|4|HAYIR|%31|EVET|4|HAYIR|%25|EVET|4|HAYIR|%25|EVET|4|HAYIR|%23|EVET|4|HAYIR|%23|E
↳ VET|1|HAYIR|%23|EVET|4|HAYIR|%27|EVET|4|HAYIR|%19|EVET|4|HAYIR|%25|EVET|2|EVET|%23|EVET|4|HAYIR|%29|EVET
104 103|2026-07-24 14:53:55|2|1/2|EVET|%48|%14|HAYIR|%33|4/1|HAYIR|%24|EVET|%29|4/1|HAYIR|%20|K•C|EVET|%62|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|
↳ PATTERN_BREAK:0,59|EVET|4|HAYIR|%22|EVET|2|HAYIR|%14|EVET|2|HAYIR|%31|EVET|1|EVET|%25|EVET|1|EVET|%25|EVET|4|HAYIR|%22|EVET|3|HAYIR|%22|EVET|
↳ 2|HAYIR|%22|EVET|3|HAYIR|%27|EVET|1|EVET|%18|EVET|1|EVET|%25|EVET|2|HAYIR|%25|EVET|4|HAYIR|%29|EVET
105 104|2026-07-24 14:53:57|1|4/3|HAYIR|%47|%14|HAYIR|%32|1/3|EVET|%25|HAYIR|%29|1/3|EVET|%21|KT|EVET|%63|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|P
↳ ATTERN_BREAK:0,59|EVET|1|EVET|%22|EVET|2|HAYIR|%14|EVET|4|HAYIR|%30|EVET|1|EVET|%26|EVET|1|EVET|%26|EVET|1|EVET|%22|EVET|3|HAYIR|%22|EVET|1|E
↳ VET|%22|EVET|1|EVET|%26|EVET|1|EVET|%20|EVET|1|EVET|%26|EVET|2|HAYIR|%24|EVET|1|EVET|%28|EVET
106 105|2026-07-24 14:53:58|1|3/1|HAYIR|%46|%14|HAYIR|%32|1/3|HAYIR|%25|HAYIR|%28|3/1|HAYIR|%21|K|HAYIR|%62|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE
↳ >TEPE||HAYIR|3|HAYIR|%24|EVET|1|HAYIR|%14|EVET|3|HAYIR|%30|EVET|3|HAYIR|%28|EVET|1|HAYIR|%28|EVET|1|HAYIR|%24|EVET|3|HAYIR|%22|EVET|1|HAYIR|%
↳ 24|EVET|1|HAYIR|%28|EVET|1|HAYIR|%22|EVET|3|HAYIR|%28|EVET|2|HAYIR|%24|EVET|3|HAYIR|%30|EVET
107 106|2026-07-24 14:54:00|4|3/4|EVET|%47|%15|HAYIR|%31|4/2|HAYIR|%24|HAYIR|%28|4|HAYIR|%21|B•T|EVET|%63|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>T
↳ EPE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%23|EVET|1|HAYIR|%13|EVET|1|HAYIR|%29|EVET|3|EVET|%27|EVET|4|HAYIR|%27|EVET|4|HAYIR|%23|EVET|2|HAYIR|%21|
↳ EVET|2|HAYIR|%23|EVET|2|HAYIR|%27|EVET|4|HAYIR|%21|EVET|1|HAYIR|%27|EVET|2|HAYIR|%23|EVET|2|HAYIR|%29|EVET
108 107|2026-07-24 14:54:06|3|2/3|HAYIR|%48|%15|EVET|%32|4/2|HAYIR|%24|HAYIR|%27|4/2|HAYIR|%20|B•C|EVET|%63|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEPE
↳ |PATTERN_BREAK:0,59|EVET|4|HAYIR|%23|EVET|1|HAYIR|%13|EVET|1|HAYIR|%28|EVET|3|EVET|%28|EVET|4|HAYIR|%26|EVET|4|HAYIR|%23|EVET|4|HAYIR|%21|EVE
↳ T|1|HAYIR|%23|EVET|4|HAYIR|%26|EVET|4|HAYIR|%21|EVET|1|HAYIR|%26|EVET|2|HAYIR|%23|EVET|4|HAYIR|%28|EVET
109 108|2026-07-24 14:54:08|3|4/3|HAYIR|%49|%15|EVET|%33|4/3|HAYIR|%23|EVET|%28|3/4|EVET|%22|C|HAYIR|%62|VADI_YON|FRAGMENTARY_2|VADI>TEPE>VADI|PA
↳ TTERN_BREAK:0,59|EVET|3|EVET|%22|EVET|1|HAYIR|%13|EVET|2|HAYIR|%28|EVET|4|HAYIR|%30|EVET|3|EVET|%26|EVET|3|EVET|%22|EVET|4|HAYIR|%20|EVET|3|E
↳ VET|%22|EVET|4|HAYIR|%26|EVET|4|HAYIR|%20|EVET|1|HAYIR|%26|EVET|1|HAYIR|%22|EVET|4|HAYIR|%28|EVET
110 109|2026-07-24 14:54:09|3|4/3|HAYIR|%48|%15|HAYIR|%33|4/3|HAYIR|%23|HAYIR|%28|4/3|HAYIR|%21|B•T|EVET|%63|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI
↳ >VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%24|EVET|2|HAYIR|%12|EVET|1|EVET|%27|EVET|4|HAYIR|%29|EVET|1|EVET|%27|EVET|4|HAYIR|%24|EVET|4|HAYIR|%20
↳ |EVET|3|HAYIR|%24|EVET|4|HAYIR|%25|EVET|4|HAYIR|%20|EVET|4|HAYIR|%25|EVET|1|EVET|%22|EVET|3|HAYIR|%27|EVET
111 110|2026-07-24 14:54:15|1|4/2|HAYIR|%49|%14|EVET|%34|2/1|EVET|%24|HAYIR|%27|2|EVET|%22|KC|EVET|%63|BLOK_TERS_TEKRAR|FRAGMENTARY_2|BLOK_DUZ>VA
↳ DI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|2|EVET|%23|EVET|2|EVET|%12|EVET|4|HAYIR|%29|EVET|4|HAYIR|%29|EVET|2|EVET|%29|EVET|2|EV
↳ ET|%23|EVET|3|HAYIR|%20|EVET|3|HAYIR|%23|EVET|1|HAYIR|%25|EVET|2|EVET|%20|EVET|2|EVET|%25|EVET|1|HAYIR|%23|EVET|2|EVET|%27|EVET
112 111|2026-07-24 14:54:33|2|3/4|HAYIR|%50|%14|EVET|%35|3/2|HAYIR|%24|HAYIR|%27|3/2|HAYIR|%22|KT|HAYIR|%62|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>
↳ TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|3|HAYIR|%25|EVET|2|HAYIR|%14|EVET|4|EVET|%28|EVET|4|EVET|%28|EVET|4|EVET|%30|EVET|4|EVET|%25|E
↳ VET|3|HAYIR|%19|EVET|3|HAYIR|%23|EVET|3|HAYIR|%25|EVET|4|EVET|%21|EVET|2|HAYIR|%26|EVET|1|HAYIR|%23|EVET|3|HAYIR|%28|EVET
113 112|2026-07-24 15:02:32|4|2/3|HAYIR|%50|%14|EVET|%36|2/1|HAYIR|%23|HAYIR|%26|2|HAYIR|%22|K|EVET|%63|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE
↳ |PATTERN_BREAK:0,59|EVET|2|HAYIR|%24|EVET|3|EVET|%14|EVET|2|HAYIR|%29|EVET|1|HAYIR|%29|EVET|2|HAYIR|%31|EVET|2|HAYIR|%26|EVET|3|EVET|%19|EVET
↳ |3|EVET|%22|EVET|2|HAYIR|%24|EVET|2|HAYIR|%22|EVET|2|HAYIR|%26|EVET|1|HAYIR|%22|EVET|2|HAYIR|%28|EVET
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[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 114 ve sonrası)

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114 113|2026-07-24 15:02:38|3|4/3|HAYIR|%50|%14|HAYIR|%35|4/3|HAYIR|%23|HAYIR|%26|4/2|HAYIR|%21|B•T|EVET|%64|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEP
↳ E>VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%24|EVET|3|HAYIR|%15|EVET|2|HAYIR|%29|EVET|2|HAYIR|%29|EVET|4|HAYIR|%31|EVET|4|HAYIR|%25|EVET|4|HAYIR|
↳ %20|EVET|3|HAYIR|%24|EVET|4|HAYIR|%24|EVET|4|HAYIR|%22|EVET|4|HAYIR|%25|EVET|1|EVET|%22|EVET|4|HAYIR|%27|EVET
115 114|2026-07-24 15:02:41|1|2/3|EVET|%50|%15|HAYIR|%35|2/1|EVET|%24|HAYIR|%26|2|EVET|%23|T|HAYIR|%63|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE
↳ |PATTERN_BREAK:0,59|EVET|2|EVET|%23|EVET|3|HAYIR|%15|EVET|2|EVET|%28|EVET|3|HAYIR|%28|EVET|2|EVET|%30|EVET|2|EVET|%25|EVET|2|EVET|%20|EVET|1|
↳ HAYIR|%23|EVET|1|HAYIR|%23|EVET|2|EVET|%22|EVET|2|EVET|%25|EVET|1|HAYIR|%23|EVET|2|EVET|%27|EVET
116 115|2026-07-24 15:02:44|2|3/4|HAYIR|%50|%15|HAYIR|%34|3/4|HAYIR|%24|HAYIR|%25|3/4|HAYIR|%22|B•T|HAYIR|%62|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>T
↳ EPE>DONGU||HAYIR|3|HAYIR|%25|EVET|2|EVET|%15|EVET|4|HAYIR|%30|EVET|1|HAYIR|%28|EVET|3|HAYIR|%31|EVET|3|HAYIR|%26|EVET|3|HAYIR|%21|EVET|1|HAYI
↳ R|%23|EVET|3|HAYIR|%23|EVET|3|HAYIR|%23|EVET|4|HAYIR|%26|EVET|3|HAYIR|%23|EVET|3|HAYIR|%28|EVET
117 116|2026-07-24 15:02:46|2|3/1|HAYIR|%49|%14|HAYIR|%34|3/1|HAYIR|%23|HAYIR|%25|1/3|HAYIR|%22|T|EVET|%62|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI|
↳ PATTERN_BREAK:0,59|EVET|1|HAYIR|%24|EVET|2|EVET|%16|EVET|3|HAYIR|%29|EVET|3|HAYIR|%27|EVET|3|HAYIR|%31|EVET|3|HAYIR|%26|EVET|1|HAYIR|%21|EVET
↳ |3|HAYIR|%22|EVET|3|HAYIR|%22|EVET|3|HAYIR|%22|EVET|1|HAYIR|%26|EVET|2|EVET|%22|EVET|1|HAYIR|%27|EVET
118 117|2026-07-24 15:02:48|2|1/2|HAYIR|%48|%14|HAYIR|%33|1/2|HAYIR|%23|HAYIR|%25|1|HAYIR|%22|K|EVET|%63|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>TEP
↳ E|PATTERN_BREAK:0,59|EVET|1|HAYIR|%24|EVET|2|HAYIR|%17|EVET|4|EVET|%29|EVET|3|HAYIR|%27|EVET|1|HAYIR|%30|EVET|1|HAYIR|%25|EVET|1|HAYIR|%20|EV
↳ ET|2|HAYIR|%22|EVET|2|HAYIR|%22|EVET|1|HAYIR|%22|EVET|1|HAYIR|%25|EVET|2|HAYIR|%24|EVET|1|HAYIR|%27|EVET
119 118|2026-07-24 15:03:05|4|1/2|HAYIR|%49|%14|EVET|%34|2/3|EVET|%24|HAYIR|%24|3/2|HAYIR|%21|K•T|EVET|%63|TEPE_YON|FRAGMENTARY_2|TEPE>BLOK_TERS>
↳ TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%23|EVET|1|HAYIR|%17|EVET|1|HAYIR|%30|EVET|3|HAYIR|%26|EVET|2|EVET|%30|EVET|2|EVET|%25|EVET|3|HAYIR|%20|
↳ EVET|2|EVET|%22|EVET|2|EVET|%22|EVET|1|HAYIR|%22|EVET|1|HAYIR|%25|EVET|2|EVET|%23|EVET|2|EVET|%26|EVET
120 119|2026-07-24 15:04:10|2|4/3|HAYIR|%48|%14|HAYIR|%34|4/3|HAYIR|%24|HAYIR|%24|4/3|HAYIR|%21|K•C|EVET|%64|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VAD
↳ I|PATTERN_BREAK:0,59|EVET|4|HAYIR|%23|EVET|2|EVET|%17|EVET|4|HAYIR|%29|EVET|3|HAYIR|%26|EVET|4|HAYIR|%31|EVET|4|HAYIR|%26|EVET|3|HAYIR|%20|EV
↳ ET|2|EVET|%23|EVET|2|EVET|%23|EVET|4|HAYIR|%21|EVET|4|HAYIR|%25|EVET|2|EVET|%25|EVET|3|HAYIR|%28|EVET
121 120|2026-07-24 15:05:01|2|2/3|HAYIR|%49|%14|EVET|%35|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%21|K|HAYIR|%63|DONGU_TERS_YON|FRAGMENTARY_2|AZALIS>TEPE>D
↳ ONGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|
↳ EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET
122 121|2026-07-25 14:58:32|3|--|HAYIR|%48|%13|HAYIR|%34|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%62|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|BLOK_TERS>V
↳ ADI>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYI
↳ R|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET
123 122|2026-07-25 14:58:33|4|--|HAYIR|%47|%13|HAYIR|%34|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%61|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|R
↳ EGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAY
↳ IR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
124 123|2026-07-25 14:58:35|3|2/3|HAYIR|%48|%13|EVET|%35|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%20|--|HAYIR|%60|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU|
↳ |HAYIR|4|HAYIR|%0|EVET|3|EVET|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%0|EVET|4|HAYIR|
↳ %0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
125 124|2026-07-25 14:58:36|3|--|HAYIR|%48|%13|HAYIR|%34|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%60|DONGU_YON|FRAGMENTARY_2|TEPE>VADI>DONGU|P
↳ ATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR
↳ |%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET
126 125|2026-07-25 14:58:38|2|--|HAYIR|%47|%13|HAYIR|%34|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%19|--|HAYIR|%59|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VAD
↳ I|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|2|HAYIR|%60|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HA
↳ YIR|%20|EVET|3|HAYIR|%20|EVET|4|EVET|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET
127 126|2026-07-25 14:58:42|4|--|HAYIR|%46|%12|HAYIR|%33|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%19|--|HAYIR|%58|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEP
↳ E|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|3|HAYIR|%50|EVET|4|HAYIR|%16|EVET|2|HAYIR|%16|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|2|
↳ HAYIR|%16|EVET|2|HAYIR|%16|EVET|2|HAYIR|%16|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%16|EVET
128 127|2026-07-25 14:58:45|1|--|HAYIR|%46|%12|HAYIR|%33|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%20|--|HAYIR|%57|TEPE_YON|MODERATE_PERIODIC_4|VADI>VADI>TEP
↳ E|PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|2|EVET|%42|EVET|2|EVET|%14|EVET|3|HAYIR|%14|EVET|2|EVET|%14|EVET|1|HAYIR|%14|EVET|2|EVET|%0|EVET|1|H
↳ AYIR|%14|EVET|1|HAYIR|%14|EVET|2|EVET|%14|EVET|2|EVET|%14|EVET|3|HAYIR|%0|EVET|1|HAYIR|%14|EVET
129 128|2026-07-25 14:58:47|2|3/2|HAYIR|%45|%12|HAYIR|%32|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%20|--|HAYIR|%56|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>T
↳ EPE||HAYIR|3|HAYIR|%12|EVET|2|HAYIR|%50|EVET|3|HAYIR|%25|EVET|1|HAYIR|%12|EVET|3|HAYIR|%25|EVET|3|HAYIR|%12|EVET|4|EVET|%12|EVET|2|HAYIR|%12|
↳ EVET|4|EVET|%12|EVET|3|HAYIR|%25|EVET|3|HAYIR|%25|EVET|2|HAYIR|%0|EVET|3|HAYIR|%12|EVET
130 129|2026-07-25 14:58:50|4|2/1|HAYIR|%45|%12|HAYIR|%32|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%56|VADI_YON|FRAGMENTARY_2|TEPE>BLOK_DUZ>VAD
↳ I|PATTERN_BREAK:0,59|EVET|2|HAYIR|%11|EVET|2|HAYIR|%44|EVET|3|EVET|%22|EVET|2|HAYIR|%11|EVET|2|HAYIR|%22|EVET|2|HAYIR|%11|EVET|3|EVET|%22|EVE
↳ T|3|EVET|%11|EVET|2|HAYIR|%22|EVET|3|EVET|%22|EVET|3|EVET|%22|EVET|2|HAYIR|%0|EVET|2|HAYIR|%11|EVET
131 130|2026-07-25 14:58:50|3|--|HAYIR|%44|%12|HAYIR|%32|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%19|--|HAYIR|%55|VADI_YON|FRAGMENTARY_2|TEPE>DONGU>VADI|PA
↳ TTERN_BREAK:0,59|EVET|1|HAYIR|%10|EVET|2|EVET|%40|EVET|1|HAYIR|%30|EVET|3|HAYIR|%10|EVET|1|HAYIR|%20|EVET|1|HAYIR|%10|EVET|4|HAYIR|%30|EVET|2
↳ |EVET|%20|EVET|4|HAYIR|%20|EVET|1|HAYIR|%30|EVET|1|HAYIR|%30|EVET|2|EVET|%0|EVET|4|HAYIR|%10|EVET
132 131|2026-07-25 14:58:53|2|--|HAYIR|%43|%12|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%19|--|HAYIR|%54|TEPE_YON|FRAGMENTARY_2|VADI>DONGU>TEPE|PA
↳ TTERN_BREAK:0,59|EVET|1|HAYIR|%9|EVET|2|EVET|%45|EVET|2|EVET|%27|EVET|1|HAYIR|%9|EVET|1|HAYIR|%18|EVET|1|HAYIR|%9|EVET|4|HAYIR|%27|EVET|2|EVE
↳ T|%27|EVET|4|HAYIR|%18|EVET|1|HAYIR|%27|EVET|1|HAYIR|%27|EVET|3|HAYIR|%9|EVET|4|HAYIR|%9|EVET
133 132|2026-07-25 14:58:58|2|--|HAYIR|%43|%12|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%19|--|HAYIR|%54|TEPE_YON|FRAGMENTARY_2|VADI>DONGU>TEPE|PA
↳ TTERN_BREAK:0,59|EVET|1|HAYIR|%8|EVET|2|EVET|%50|EVET|1|HAYIR|%33|EVET|3|HAYIR|%8|EVET|2|EVET|%16|EVET|1|HAYIR|%8|EVET|3|HAYIR|%25|EVET|2|EVE
↳ T|%33|EVET|4|HAYIR|%16|EVET|2|EVET|%25|EVET|1|HAYIR|%25|EVET|3|HAYIR|%8|EVET|1|HAYIR|%8|EVET
134 133|2026-07-25 14:58:59|2|2/3|HAYIR|%44|%11|EVET|%32|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%19|--|HAYIR|%53|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VADI
↳ |PATTERN_BREAK:0,59|EVET|1|HAYIR|%7|EVET|2|HAYIR|%53|EVET|4|HAYIR|%30|EVET|4|HAYIR|%7|EVET|1|HAYIR|%23|EVET|1|HAYIR|%7|EVET|4|HAYIR|%23|EVET|
↳ 2|HAYIR|%38|EVET|4|HAYIR|%15|EVET|4|HAYIR|%30|EVET|1|HAYIR|%23|EVET|3|EVET|%7|EVET|2|HAYIR|%7|EVET
135 134|2026-07-25 14:59:01|3|3/2|HAYIR|%43|%11|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%18|--|HAYIR|%52|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEP
↳ E||HAYIR|2|HAYIR|%7|EVET|2|HAYIR|%50|EVET|3|HAYIR|%28|EVET|4|HAYIR|%7|EVET|2|HAYIR|%21|EVET|2|HAYIR|%7|EVET|2|HAYIR|%21|EVET|3|HAYIR|%35|EVET
↳ |4|HAYIR|%14|EVET|2|HAYIR|%28|EVET|2|HAYIR|%21|EVET|3|HAYIR|%14|EVET|2|HAYIR|%7|EVET
136 135|2026-07-25 14:59:03|1|2/3|EVET|%44|%12|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%19|--|HAYIR|%52|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATT
↳ ERN_BREAK:0,59|EVET|2|EVET|%6|EVET|2|EVET|%46|EVET|1|HAYIR|%26|EVET|4|HAYIR|%6|EVET|1|HAYIR|%20|EVET|2|EVET|%6|EVET|2|EVET|%20|EVET|2|EVET|%3
↳ 3|EVET|1|HAYIR|%13|EVET|2|EVET|%26|EVET|1|HAYIR|%20|EVET|2|EVET|%13|EVET|2|EVET|%6|EVET
137 136|2026-07-25 14:59:05|2|2/3|HAYIR|%43|%12|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%19|--|HAYIR|%51|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI||H
↳ AYIR|2|HAYIR|%12|EVET|2|HAYIR|%50|EVET|2|HAYIR|%25|EVET|1|EVET|%6|EVET|2|HAYIR|%18|EVET|2|HAYIR|%12|EVET|4|HAYIR|%25|EVET|2|HAYIR|%37|EVET|4|
↳ HAYIR|%12|EVET|2|HAYIR|%31|EVET|2|HAYIR|%18|EVET|2|HAYIR|%18|EVET|4|HAYIR|%12|EVET
138 137|2026-07-25 14:59:08|1|--|HAYIR|%43|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%19|--|HAYIR|%51|DONGU_TERS_YON|FRAGMENTARY_2|VADI>VADI>DO
↳ NGU_TERS|PATTERN_BREAK:0,59|EVET|1|HAYIR|%11|EVET|2|HAYIR|%47|EVET|3|HAYIR|%23|EVET|4|EVET|%11|EVET|1|HAYIR|%17|EVET|1|HAYIR|%11|EVET|2|HAYIR
↳ |%23|EVET|1|HAYIR|%35|EVET|1|HAYIR|%11|EVET|1|HAYIR|%29|EVET|1|HAYIR|%17|EVET|3|HAYIR|%17|EVET|1|HAYIR|%11|EVET
139 138|2026-07-25 14:59:08|4|--|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%19|--|HAYIR|%50|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>VAD
↳ I>DONGU_TERS|PATTERN_BREAK:0,59|EVET|4|HAYIR|%11|EVET|2|HAYIR|%44|EVET|4|HAYIR|%22|EVET|4|HAYIR|%16|EVET|4|HAYIR|%16|EVET|4|HAYIR|%11|EVET|3|
↳ HAYIR|%22|EVET|3|HAYIR|%33|EVET|2|HAYIR|%11|EVET|4|HAYIR|%27|EVET|4|HAYIR|%16|EVET|2|HAYIR|%16|EVET|3|HAYIR|%11|EVET
140 139|2026-07-25 14:59:10|1|2/1|HAYIR|%43|%12|EVET|%31|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%18|--|HAYIR|%50|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|2|HAYIR|%10|EVET|2|HAYIR|%42|EVET|1|EVET|%21|EVET|3|HAYIR|%15|EVET|2|HAYIR|%15|EVET|1|EVET|%10|EVET|2|HAYIR|%21|EVET|2|H
↳ AYIR|%31|EVET|1|EVET|%10|EVET|2|HAYIR|%26|EVET|1|EVET|%15|EVET|2|HAYIR|%15|EVET|1|EVET|%10|EVET
141 140|2026-07-25 14:59:11|1|--|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%18|--|HAYIR|%49|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|3|HAYIR|%10|EVET|2|HAYIR|%40|EVET|3|HAYIR|%25|EVET|3|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%20|EVET|2
↳ |HAYIR|%30|EVET|1|EVET|%15|EVET|3|HAYIR|%25|EVET|3|HAYIR|%20|EVET|1|EVET|%15|EVET|3|HAYIR|%15|EVET
142 141|2026-07-25 14:59:12|1|--|HAYIR|%42|%11|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%18|--|HAYIR|%48|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VAD
↳ I|PATTERN_BREAK:0,59|EVET|3|HAYIR|%9|EVET|2|HAYIR|%38|EVET|3|HAYIR|%23|EVET|3|HAYIR|%14|EVET|3|HAYIR|%14|EVET|3|HAYIR|%14|EVET|3|HAYIR|%19|EV
↳ ET|1|HAYIR|%28|EVET|1|HAYIR|%19|EVET|3|HAYIR|%23|EVET|3|HAYIR|%19|EVET|2|HAYIR|%19|EVET|3|HAYIR|%14|EVET
143 142|2026-07-25 14:59:14|4|1/3|HAYIR|%43|%11|EVET|%31|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%19|--|HAYIR|%48|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>DON
↳ GU_TERS||HAYIR|3|EVET|%9|EVET|1|HAYIR|%36|EVET|3|EVET|%22|EVET|1|HAYIR|%13|EVET|3|EVET|%13|EVET|3|EVET|%13|EVET|3|EVET|%18|EVET|3|EVET|%27|EV
↳ ET|2|HAYIR|%18|EVET|3|EVET|%22|EVET|3|EVET|%18|EVET|2|HAYIR|%18|EVET|3|EVET|%13|EVET
144 143|2026-07-25 14:59:16|3|--|HAYIR|%42|%11|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%20|--|HAYIR|%47|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PATT
↳ ERN_BREAK:0,59|EVET|3|EVET|%13|EVET|1|HAYIR|%34|EVET|3|EVET|%26|EVET|3|EVET|%13|EVET|3|EVET|%17|EVET|3|EVET|%17|EVET|1|HAYIR|%21|EVET|1|HAYIR
↳ |%30|EVET|4|HAYIR|%17|EVET|3|EVET|%26|EVET|3|EVET|%21|EVET|2|HAYIR|%17|EVET|4|HAYIR|%17|EVET
145 144|2026-07-25 14:59:17|3|3/2|EVET|%43|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%21|--|HAYIR|%47|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PATT
↳ ERN_BREAK:0,59|EVET|3|EVET|%16|EVET|1|HAYIR|%33|EVET|3|EVET|%29|EVET|4|HAYIR|%16|EVET|3|EVET|%20|EVET|3|EVET|%20|EVET|2|HAYIR|%20|EVET|3|EVET
↳ |%29|EVET|4|HAYIR|%16|EVET|3|EVET|%29|EVET|3|EVET|%25|EVET|3|EVET|%16|EVET|3|EVET|%16|EVET
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[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 146 ve sonrası)

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146 145|2026-07-25 14:59:18|3|--|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%20|--|HAYIR|%46|VADI_YON|FRAGMENTARY_2|VADI>DONGU_TERS>VA
↳ DI|PATTERN_BREAK:0,59|EVET|1|HAYIR|%20|EVET|2|HAYIR|%32|EVET|1|HAYIR|%32|EVET|4|EVET|%16|EVET|1|HAYIR|%24|EVET|1|HAYIR|%24|EVET|1|HAYIR|%20|E
↳ VET|3|HAYIR|%32|EVET|3|HAYIR|%16|EVET|1|HAYIR|%32|EVET|1|HAYIR|%28|EVET|3|HAYIR|%20|EVET|3|HAYIR|%20|EVET
147 146|2026-07-25 14:59:24|4|--|HAYIR|%42|%12|HAYIR|%29|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%20|--|HAYIR|%46|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TE
↳ PE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%19|EVET|1|HAYIR|%30|EVET|2|EVET|%30|EVET|3|HAYIR|%19|EVET|4|HAYIR|%23|EVET|4|HAYIR|%23|EVET|3|HAYIR|%19|E
↳ VET|3|HAYIR|%30|EVET|2|EVET|%15|EVET|2|EVET|%30|EVET|2|EVET|%26|EVET|3|HAYIR|%19|EVET|2|EVET|%19|EVET
148 147|2026-07-25 14:59:26|2|3/2|HAYIR|%42|%12|EVET|%30|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%20|--|HAYIR|%45|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|3|HAYIR|%18|EVET|2|EVET|%29|EVET|3|HAYIR|%33|EVET|2|EVET|%18|EVET|4|HAYIR|%22|EVET|4|HAYIR|%22|EVET|4|HAYIR|%18|EVET|2|E
↳ VET|%29|EVET|4|HAYIR|%18|EVET|3|HAYIR|%33|EVET|3|HAYIR|%29|EVET|3|HAYIR|%18|EVET|4|HAYIR|%22|EVET
149 148|2026-07-25 14:59:29|2|2|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%45|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE
↳ ||HAYIR|2|HAYIR|%17|EVET|1|HAYIR|%32|EVET|2|HAYIR|%32|EVET|2|HAYIR|%21|EVET|2|HAYIR|%21|EVET|2|HAYIR|%21|EVET|3|EVET|%17|EVET|2|HAYIR|%32|EVE
↳ T|2|HAYIR|%17|EVET|2|HAYIR|%32|EVET|3|EVET|%28|EVET|2|HAYIR|%17|EVET|2|HAYIR|%21|EVET
150 149|2026-07-25 14:59:33|3|2/1|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%20|--|HAYIR|%45|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VA
↳ DI||HAYIR|4|HAYIR|%17|EVET|2|HAYIR|%31|EVET|4|HAYIR|%31|EVET|2|HAYIR|%20|EVET|4|HAYIR|%20|EVET|4|HAYIR|%20|EVET|1|HAYIR|%20|EVET|3|EVET|%31|E
↳ VET|4|HAYIR|%17|EVET|4|HAYIR|%31|EVET|1|HAYIR|%31|EVET|2|HAYIR|%17|EVET|1|HAYIR|%20|EVET
151 150|2026-07-25 14:59:36|3|3/2|HAYIR|%41|%11|HAYIR|%29|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%19|--|HAYIR|%44|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>DO
↳ NGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|3|HAYIR|%16|EVET|3|HAYIR|%30|EVET|3|HAYIR|%30|EVET|4|HAYIR|%20|EVET|4|HAYIR|%20|EVET|4|HAYIR|%20|
↳ EVET|2|HAYIR|%20|EVET|3|HAYIR|%33|EVET|3|HAYIR|%16|EVET|3|HAYIR|%30|EVET|4|HAYIR|%30|EVET|3|HAYIR|%16|EVET|3|HAYIR|%20|EVET
152 151|2026-07-25 14:59:39|1|2/1|EVET|%42|%12|HAYIR|%29|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%20|--|HAYIR|%44|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PATT
↳ ERN_BREAK:0,59|EVET|2|EVET|%16|EVET|2|EVET|%29|EVET|2|EVET|%29|EVET|3|HAYIR|%19|EVET|2|EVET|%19|EVET|2|EVET|%19|EVET|2|EVET|%19|EVET|2|EVET|%
↳ 32|EVET|1|HAYIR|%16|EVET|2|EVET|%29|EVET|2|EVET|%29|EVET|3|HAYIR|%16|EVET|2|EVET|%19|EVET
153 152|2026-07-25 15:00:31|2|2/3|HAYIR|%41|%12|HAYIR|%29|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%21|--|HAYIR|%43|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>TE
↳ PE||HAYIR|4|EVET|%18|EVET|3|HAYIR|%31|EVET|4|EVET|%31|EVET|3|HAYIR|%18|EVET|4|EVET|%21|EVET|4|EVET|%21|EVET|4|EVET|%21|EVET|2|HAYIR|%34|EVET|
↳ 2|HAYIR|%15|EVET|4|EVET|%31|EVET|2|HAYIR|%31|EVET|2|HAYIR|%15|EVET|4|EVET|%21|EVET
154 153|2026-07-25 15:01:43|4|3/2|HAYIR|%41|%12|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%21|--|HAYIR|%43|VADI_YON|FRAGMENTARY_2|DONGU_TERS>VADI>V
↳ ADI|PATTERN_BREAK:0,59|EVET|3|HAYIR|%21|EVET|2|HAYIR|%30|EVET|3|HAYIR|%33|EVET|2|HAYIR|%18|EVET|2|HAYIR|%24|EVET|3|HAYIR|%24|EVET|3|HAYIR|%24
↳ |EVET|3|HAYIR|%33|EVET|2|HAYIR|%15|EVET|3|HAYIR|%33|EVET|3|HAYIR|%30|EVET|2|HAYIR|%15|EVET|2|HAYIR|%24|EVET
155 154|2026-07-25 15:02:39|1|2/1|HAYIR|%40|%12|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%42|TEPE_YON|FRAGMENTARY_2|ARTIS>TEPE>TEPE|P
↳ ATTERN_BREAK:0,59|EVET|2|HAYIR|%20|EVET|3|HAYIR|%29|EVET|2|HAYIR|%32|EVET|3|HAYIR|%17|EVET|2|HAYIR|%23|EVET|2|HAYIR|%23|EVET|2|HAYIR|%23|EVET
↳ |2|HAYIR|%32|EVET|1|HAYIR|%14|EVET|2|HAYIR|%32|EVET|2|HAYIR|%29|EVET|2|HAYIR|%14|EVET|1|HAYIR|%23|EVET
156 155|2026-07-25 15:03:42|4|--|HAYIR|%40|%12|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%21|--|HAYIR|%42|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|TEPE>TEPE>BL
↳ OK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|3|EVET|%20|EVET|1|HAYIR|%28|EVET|1|HAYIR|%31|EVET|1|HAYIR|%17|EVET|3|EVET|%22|EVET|3|EVET|%2
↳ 2|EVET|3|EVET|%22|EVET|3|EVET|%31|EVET|2|HAYIR|%14|EVET|3|EVET|%31|EVET|1|HAYIR|%28|EVET|2|HAYIR|%14|EVET|3|EVET|%22|EVET
157 156|2026-07-25 15:04:55|3|3/1|HAYIR|%41|%12|EVET|%28|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%21|--|HAYIR|%42|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|REG
↳ IME_SHIFT:0,50|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|
↳ EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET
158 157|2026-07-26 01:38:22|1|2/1|HAYIR|%40|%12|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%21|--|HAYIR|%41|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VA
↳ DI|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|
↳ HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
159 158|2026-07-26 01:38:23|4|3/1|HAYIR|%40|%11|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%21|--|HAYIR|%41|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU_TE
↳ RS>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EV
↳ ET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET
160 159|2026-07-26 01:38:24|4|--|HAYIR|%40|%11|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%40|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|3|EVET|%0
↳ |EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
161 160|2026-07-26 01:38:27|3|--|HAYIR|%39|%11|HAYIR|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%20|--|HAYIR|%40|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PAT
↳ TERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%
↳ 0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET
162 161|2026-07-26 01:38:29|2|--|HAYIR|%39|%11|HAYIR|%27|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%20|--|HAYIR|%40|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>VADI>TEP
↳ E|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%20|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%40|EVET|4
↳ |HAYIR|%40|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
163 162|2026-07-26 01:38:30|3|--|HAYIR|%38|%11|HAYIR|%27|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%20|--|HAYIR|%39|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>VADI
↳ |PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%16|EVET|4|HAYIR|%16|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%33|EVET|3|
↳ HAYIR|%33|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET
164 163|2026-07-26 01:38:31|2|--|HAYIR|%38|%11|HAYIR|%27|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%20|--|HAYIR|%39|VADI_YON|FRAGMENTARY_2|TEPE>BLOK_DUZ>VADI
↳ |PATTERN_BREAK:0,59|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%14|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%28|EVET|2|E
↳ VET|%28|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET
165 164|2026-07-26 01:38:33|2|--|HAYIR|%38|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%39|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%12|EVET|2|HAYIR|%0|EVET|3|HAYIR|%12|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%25|EVET|2|HAY
↳ IR|%37|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%12|EVET|3|HAYIR|%0|EVET
166 165|2026-07-26 01:38:34|4|--|HAYIR|%37|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%19|--|HAYIR|%38|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI|PAT
↳ TERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%11|EVET|1|EVET|%0|EVET|3|HAYIR|%11|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%22|EVET|3|HAYI
↳ R|%33|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%11|EVET|2|HAYIR|%0|EVET
167 166|2026-07-26 01:38:37|1|2/1|EVET|%38|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%20|--|HAYIR|%38|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE
↳ >DONGU_TERS||HAYIR|2|EVET|%0|EVET|1|HAYIR|%10|EVET|2|EVET|%10|EVET|3|HAYIR|%10|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%20|EVET|2|EVET|%30|
↳ EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%10|EVET|1|HAYIR|%0|EVET
168 167|2026-07-26 01:38:37|2|--|HAYIR|%38|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%21|--|HAYIR|%38|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PATT
↳ ERN_BREAK:0,59|EVET|4|EVET|%9|EVET|2|HAYIR|%9|EVET|4|EVET|%18|EVET|1|HAYIR|%9|EVET|3|HAYIR|%9|EVET|4|EVET|%9|EVET|4|EVET|%27|EVET|2|HAYIR|%36
↳ |EVET|4|EVET|%0|EVET|4|EVET|%9|EVET|4|EVET|%9|EVET|3|HAYIR|%18|EVET|4|EVET|%0|EVET
169 168|2026-07-26 01:38:39|4|3/2|HAYIR|%37|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%21|--|HAYIR|%37|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI||H
↳ AYIR|3|HAYIR|%16|EVET|2|HAYIR|%8|EVET|3|HAYIR|%25|EVET|2|HAYIR|%8|EVET|3|HAYIR|%8|EVET|3|HAYIR|%16|EVET|3|HAYIR|%33|EVET|3|HAYIR|%33|EVET|2|H
↳ AYIR|%8|EVET|3|HAYIR|%16|EVET|3|HAYIR|%16|EVET|3|HAYIR|%16|EVET|1|EVET|%8|EVET
170 169|2026-07-26 01:38:42|1|2/1|HAYIR|%38|%11|EVET|%26|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%20|--|HAYIR|%37|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU||
↳ HAYIR|2|HAYIR|%15|EVET|2|HAYIR|%7|EVET|4|HAYIR|%23|EVET|3|HAYIR|%7|EVET|4|HAYIR|%7|EVET|4|HAYIR|%15|EVET|2|HAYIR|%30|EVET|2|HAYIR|%30|EVET|1|
↳ EVET|%7|EVET|4|HAYIR|%15|EVET|2|HAYIR|%15|EVET|3|HAYIR|%15|EVET|1|EVET|%15|EVET
171 170|2026-07-26 01:38:43|1|--|HAYIR|%38|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%21|--|HAYIR|%37|DONGU_TERS_YON|FRAGMENTARY_2|TEPE>VADI>DON
↳ GU_TERS|PATTERN_BREAK:0,59|EVET|3|EVET|%14|EVET|2|HAYIR|%7|EVET|1|HAYIR|%21|EVET|3|EVET|%7|EVET|3|EVET|%7|EVET|3|EVET|%14|EVET|3|EVET|%28|EVE
↳ T|2|HAYIR|%28|EVET|1|HAYIR|%14|EVET|3|EVET|%14|EVET|3|EVET|%14|EVET|3|EVET|%14|EVET|3|EVET|%21|EVET
172 171|2026-07-26 01:38:46|3|--|HAYIR|%37|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%21|--|HAYIR|%36|DONGU_TERS_YON|FRAGMENTARY_2|DONGU_TERS>V
↳ ADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|4|HAYIR|%20|EVET|2|HAYIR|%6|EVET|4|HAYIR|%20|EVET|2|HAYIR|%13|EVET|3|HAYIR|%13|EVET|3|HAYIR|%20|EVET|2
↳ |HAYIR|%33|EVET|3|HAYIR|%26|EVET|2|HAYIR|%13|EVET|4|HAYIR|%20|EVET|4|HAYIR|%20|EVET|2|HAYIR|%20|EVET|4|HAYIR|%26|EVET
173 172|2026-07-26 01:38:47|1|2/1|HAYIR|%37|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%21|--|HAYIR|%36|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|
↳ PATTERN_BREAK:0,59|EVET|2|HAYIR|%18|EVET|2|HAYIR|%6|EVET|3|EVET|%18|EVET|4|HAYIR|%12|EVET|3|EVET|%12|EVET|3|EVET|%18|EVET|2|HAYIR|%31|EVET|2|
↳ HAYIR|%25|EVET|1|HAYIR|%12|EVET|3|EVET|%18|EVET|3|EVET|%18|EVET|2|HAYIR|%18|EVET|2|HAYIR|%25|EVET
174 173|2026-07-26 01:38:48|3|--|HAYIR|%37|%11|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|HAYIR|%36|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|4|HAYIR|%17|EVET|2|EVET|%5|EVET|4|HAYIR|%23|EVET|2|EVET|%11|EVET|4|HAYIR|%17|EVET|4|HAYIR|%23|EVET|1|HAYIR|%29|EVET|1|HA
↳ YIR|%23|EVET|1|HAYIR|%11|EVET|4|HAYIR|%23|EVET|4|HAYIR|%23|EVET|3|HAYIR|%17|EVET|4|HAYIR|%23|EVET
175 174|2026-07-26 01:38:51|2|--|HAYIR|%36|%11|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%20|--|HAYIR|%36|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TE
↳ PE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%16|EVET|2|HAYIR|%11|EVET|1|HAYIR|%22|EVET|2|HAYIR|%16|EVET|1|HAYIR|%16|EVET|1|HAYIR|%22|EVET|4|HAYIR|%27|
↳ EVET|1|HAYIR|%22|EVET|4|HAYIR|%11|EVET|1|HAYIR|%22|EVET|1|HAYIR|%22|EVET|2|HAYIR|%16|EVET|4|HAYIR|%22|EVET
176 175|2026-07-26 01:38:52|3|--|HAYIR|%36|%11|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%35|DONGU_YON|FRAGMENTARY_2|VADI>VADI>DONGU|P
↳ ATTERN_BREAK:0,59|EVET|2|HAYIR|%15|EVET|3|HAYIR|%10|EVET|3|HAYIR|%21|EVET|2|HAYIR|%15|EVET|2|HAYIR|%15|EVET|2|HAYIR|%21|EVET|2|HAYIR|%26|EVET
↳ |3|HAYIR|%21|EVET|2|HAYIR|%10|EVET|2|HAYIR|%21|EVET|2|HAYIR|%21|EVET|3|HAYIR|%15|EVET|2|HAYIR|%21|EVET
177 176|2026-07-26 01:38:55|1|2/1|HAYIR|%36|%11|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%35|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PA
↳ TTERN_BREAK:0,59|EVET|2|HAYIR|%15|EVET|2|HAYIR|%10|EVET|2|HAYIR|%20|EVET|1|HAYIR|%15|EVET|2|HAYIR|%15|EVET|2|HAYIR|%20|EVET|2|HAYIR|%25|EVET|
↳ 2|HAYIR|%20|EVET|1|HAYIR|%10|EVET|2|HAYIR|%20|EVET|2|HAYIR|%20|EVET|2|HAYIR|%15|EVET|2|HAYIR|%20|EVET
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[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 178 ve sonrası)

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178 177|2026-07-26 01:38:57|4|--|HAYIR|%35|%10|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|HAYIR|%35|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>D
↳ ONGU|PATTERN_BREAK:0,59|EVET|4|HAYIR|%14|EVET|2|EVET|%9|EVET|4|HAYIR|%19|EVET|1|HAYIR|%14|EVET|4|HAYIR|%14|EVET|4|HAYIR|%19|EVET|1|HAYIR|%23|
↳ EVET|1|HAYIR|%19|EVET|2|EVET|%9|EVET|4|HAYIR|%19|EVET|4|HAYIR|%19|EVET|2|EVET|%14|EVET|3|HAYIR|%19|EVET
179 178|2026-07-26 01:38:58|2|--|HAYIR|%35|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%20|--|HAYIR|%34|DONGU_YON|FRAGMENTARY_2|VADI>DONGU_TERS>DO
↳ NGU|PATTERN_BREAK:0,59|EVET|2|EVET|%13|EVET|3|HAYIR|%13|EVET|1|HAYIR|%18|EVET|1|HAYIR|%13|EVET|2|EVET|%13|EVET|2|EVET|%18|EVET|4|HAYIR|%22|EV
↳ ET|2|EVET|%18|EVET|4|HAYIR|%13|EVET|2|EVET|%18|EVET|1|HAYIR|%18|EVET|2|EVET|%18|EVET|2|EVET|%18|EVET
180 179|2026-07-26 01:38:59|2|3/2|HAYIR|%35|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%20|--|HAYIR|%34|TEPE_YON|FRAGMENTARY_2|DONGU>DONGU_TERS>
↳ TEPE||HAYIR|3|HAYIR|%17|EVET|2|HAYIR|%13|EVET|3|HAYIR|%17|EVET|2|HAYIR|%13|EVET|3|HAYIR|%17|EVET|3|HAYIR|%21|EVET|3|HAYIR|%21|EVET|3|HAYIR|%2
↳ 1|EVET|4|EVET|%13|EVET|3|HAYIR|%21|EVET|3|HAYIR|%17|EVET|2|HAYIR|%21|EVET|3|HAYIR|%21|EVET
181 180|2026-07-26 01:39:01|4|1/2|HAYIR|%35|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%20|--|HAYIR|%34|DONGU_TERS_YON|FRAGMENTARY_2|TEPE>DONGU>
↳ DONGU_TERS||HAYIR|1|HAYIR|%16|EVET|2|HAYIR|%12|EVET|1|HAYIR|%16|EVET|3|EVET|%12|EVET|2|HAYIR|%16|EVET|1|HAYIR|%20|EVET|1|HAYIR|%20|EVET|3|EVE
↳ T|%20|EVET|2|HAYIR|%16|EVET|1|HAYIR|%20|EVET|1|HAYIR|%16|EVET|3|EVET|%20|EVET|1|HAYIR|%20|EVET
182 181|2026-07-26 01:39:09|3|--|HAYIR|%34|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%34|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>DO
↳ NGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%16|EVET|3|EVET|%12|EVET|4|HAYIR|%16|EVET|2|HAYIR|%16|EVET|2|HAYIR|%16|EVET|1|HAYIR|%20|EVET|1|HAYIR
↳ |%20|EVET|2|HAYIR|%24|EVET|1|HAYIR|%16|EVET|2|HAYIR|%20|EVET|2|HAYIR|%16|EVET|3|EVET|%24|EVET|1|HAYIR|%20|EVET
183 182|2026-07-26 01:39:11|3|3/1|HAYIR|%34|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%33|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PA
↳ TTERN_BREAK:0,59|EVET|3|HAYIR|%15|EVET|2|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%19|EVET|1|HAYIR|%19|EVET|
↳ 3|HAYIR|%23|EVET|1|HAYIR|%15|EVET|3|HAYIR|%19|EVET|3|HAYIR|%15|EVET|3|HAYIR|%26|EVET|3|HAYIR|%19|EVET
184 183|2026-07-26 01:39:14|4|--|HAYIR|%34|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%33|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU|
↳ PATTERN_BREAK:0,59|EVET|2|HAYIR|%14|EVET|3|HAYIR|%14|EVET|2|HAYIR|%14|EVET|3|HAYIR|%14|EVET|2|HAYIR|%14|EVET|2|HAYIR|%18|EVET|3|HAYIR|%18|EVE
↳ T|3|HAYIR|%22|EVET|2|HAYIR|%14|EVET|2|HAYIR|%18|EVET|2|HAYIR|%14|EVET|3|HAYIR|%25|EVET|2|HAYIR|%18|EVET
185 184|2026-07-26 01:39:15|4|--|HAYIR|%34|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|HAYIR|%33|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|P
↳ ATTERN_BREAK:0,59|EVET|4|HAYIR|%14|EVET|3|EVET|%14|EVET|2|HAYIR|%14|EVET|2|HAYIR|%14|EVET|4|HAYIR|%14|EVET|4|HAYIR|%17|EVET|3|EVET|%17|EVET|3
↳ |EVET|%21|EVET|2|HAYIR|%14|EVET|3|EVET|%17|EVET|4|HAYIR|%14|EVET|2|HAYIR|%25|EVET|3|EVET|%17|EVET
186 185|2026-07-26 01:39:17|3|3/2|HAYIR|%33|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%19|--|HAYIR|%33|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU
↳ ||HAYIR|2|HAYIR|%13|EVET|3|HAYIR|%17|EVET|1|EVET|%13|EVET|2|HAYIR|%13|EVET|1|EVET|%13|EVET|1|EVET|%17|EVET|1|EVET|%20|EVET|3|HAYIR|%24|EVET|1
↳ |EVET|%13|EVET|1|EVET|%20|EVET|2|HAYIR|%13|EVET|3|HAYIR|%24|EVET|3|HAYIR|%20|EVET
187 186|2026-07-26 01:39:20|1|2/4|HAYIR|%33|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%19|--|HAYIR|%32|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU
↳ |PATTERN_BREAK:0,59|EVET|2|HAYIR|%13|EVET|3|HAYIR|%16|EVET|2|HAYIR|%16|EVET|2|HAYIR|%13|EVET|2|HAYIR|%16|EVET|2|HAYIR|%20|EVET|2|HAYIR|%23|EV
↳ ET|2|HAYIR|%23|EVET|1|EVET|%16|EVET|2|HAYIR|%23|EVET|2|HAYIR|%13|EVET|3|HAYIR|%23|EVET|2|HAYIR|%20|EVET
188 187|2026-07-26 01:39:24|1|--|HAYIR|%33|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%20|--|HAYIR|%32|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|PA
↳ TTERN_BREAK:0,59|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0
↳ |EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET
189 188|2026-07-26 02:22:25|1|--|HAYIR|%33|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%32|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TE
↳ PE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|
↳ HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET
190 189|2026-07-26 02:22:25|2|--|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%20|--|HAYIR|%32|TEPE_YON|FRAGMENTARY_2|DONGU>DONGU_TERS>T
↳ EPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1
↳ |EVET|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
191 190|2026-07-26 02:22:27|1|--|HAYIR|%32|%9|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%20|--|HAYIR|%31|VADI_YON|FRAGMENTARY_2|DONGU>VADI>VADI|PATT
↳ ERN_BREAK:0,59|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EV
↳ ET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET
192 191|2026-07-26 02:22:29|4|3/1|HAYIR|%32|%9|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%31|VADI_YON|FRAGMENTARY_2|DONGU>DONGU>VADI||
↳ HAYIR|3|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|
↳ %0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET
193 192|2026-07-26 02:22:33|2|2/1|HAYIR|%32|%9|EVET|%23|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%20|--|HAYIR|%31|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>DONGU>TE
↳ PE||HAYIR|2|HAYIR|%40|EVET|3|HAYIR|%20|EVET|2|HAYIR|%0|EVET|1|EVET|%20|EVET|2|HAYIR|%40|EVET|2|HAYIR|%40|EVET|4|HAYIR|%0|EVET|2|HAYIR|%20|EVE
↳ T|4|HAYIR|%20|EVET|2|HAYIR|%40|EVET|2|HAYIR|%40|EVET|2|HAYIR|%20|EVET|2|HAYIR|%0|EVET
194 193|2026-07-26 02:22:33|1|1/4|EVET|%33|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%20|--|HAYIR|%31|TEPE_YON|FRAGMENTARY_2|VADI>DONGU>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|1|EVET|%33|EVET|3|HAYIR|%16|EVET|1|EVET|%0|EVET|1|EVET|%33|EVET|1|EVET|%33|EVET|1|EVET|%33|EVET|2|HAYIR|%0|EVET|1|EVET|%
↳ 16|EVET|1|EVET|%16|EVET|1|EVET|%33|EVET|1|EVET|%33|EVET|2|HAYIR|%16|EVET|1|EVET|%0|EVET
195 194|2026-07-26 02:22:34|1|--|HAYIR|%33|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%31|TEPE_YON|FRAGMENTARY_2|DONGU>DONGU>TEPE|P
↳ ATTERN_BREAK:0,59|EVET|3|HAYIR|%42|EVET|3|HAYIR|%14|EVET|1|EVET|%14|EVET|1|EVET|%42|EVET|3|HAYIR|%42|EVET|3|HAYIR|%42|EVET|3|HAYIR|%0|EVET|1|
↳ EVET|%28|EVET|1|EVET|%28|EVET|3|HAYIR|%42|EVET|3|HAYIR|%42|EVET|1|EVET|%14|EVET|1|EVET|%14|EVET
196 195|2026-07-26 02:22:35|1|--|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%21|--|HAYIR|%30|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|3|EVET|%37|EVET|1|HAYIR|%12|EVET|2|HAYIR|%25|EVET|1|HAYIR|%50|EVET|3|EVET|%37|EVET|3|EVET|%37|EVET|2|HAYIR|%0|EVET|1|HAY
↳ IR|%37|EVET|1|HAYIR|%37|EVET|3|EVET|%37|EVET|3|EVET|%37|EVET|1|HAYIR|%25|EVET|1|HAYIR|%25|EVET
197 196|2026-07-26 02:22:38|3|--|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%21|--|HAYIR|%30|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_2>TE
↳ PE>VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%44|EVET|2|HAYIR|%11|EVET|4|HAYIR|%22|EVET|1|HAYIR|%44|EVET|4|HAYIR|%44|EVET|4|HAYIR|%44|EVET|1|HAYIR
↳ |%0|EVET|1|HAYIR|%33|EVET|1|HAYIR|%33|EVET|4|HAYIR|%44|EVET|4|HAYIR|%44|EVET|1|HAYIR|%22|EVET|4|HAYIR|%22|EVET
198 197|2026-07-26 02:22:38|3|3/1|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%20|--|HAYIR|%30|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PA
↳ TTERN_BREAK:0,59|EVET|3|HAYIR|%40|EVET|3|HAYIR|%10|EVET|3|HAYIR|%20|EVET|2|EVET|%40|EVET|3|HAYIR|%40|EVET|3|HAYIR|%40|EVET|4|HAYIR|%0|EVET|3|
↳ HAYIR|%30|EVET|1|HAYIR|%30|EVET|3|HAYIR|%40|EVET|3|HAYIR|%40|EVET|1|HAYIR|%20|EVET|3|HAYIR|%20|EVET
199 198|2026-07-26 02:22:41|2|--|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|HAYIR|%30|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PAT
↳ TERN_BREAK:0,59|EVET|4|HAYIR|%36|EVET|2|HAYIR|%9|EVET|4|HAYIR|%18|EVET|1|HAYIR|%45|EVET|4|HAYIR|%36|EVET|4|HAYIR|%36|EVET|4|HAYIR|%0|EVET|2|H
↳ AYIR|%27|EVET|4|HAYIR|%27|EVET|4|HAYIR|%36|EVET|4|HAYIR|%36|EVET|1|HAYIR|%18|EVET|4|HAYIR|%18|EVET
200 199|2026-07-26 02:22:41|3|1/2|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%20|--|HAYIR|%30|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>V
↳ ADI>VADI||HAYIR|1|HAYIR|%33|EVET|3|HAYIR|%8|EVET|1|HAYIR|%16|EVET|2|HAYIR|%41|EVET|1|HAYIR|%33|EVET|1|HAYIR|%33|EVET|1|HAYIR|%0|EVET|3|HAYIR|
↳ %25|EVET|1|HAYIR|%25|EVET|1|HAYIR|%33|EVET|1|HAYIR|%33|EVET|1|HAYIR|%16|EVET|1|HAYIR|%16|EVET
201 200|2026-07-26 02:22:45|4|--|HAYIR|%31|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%29|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|BLOK_DUZ>TEP
↳ E>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|2|HAYIR|%30|EVET|3|HAYIR|%7|EVET|3|HAYIR|%15|EVET|2|HAYIR|%38|EVET|1|HAYIR|%30|EVET|1|HA
↳ YIR|%30|EVET|3|HAYIR|%0|EVET|3|HAYIR|%23|EVET|2|HAYIR|%23|EVET|3|HAYIR|%30|EVET|3|HAYIR|%30|EVET|1|HAYIR|%15|EVET|2|HAYIR|%15|EVET
202 201|2026-07-26 02:22:46|4|3/2|HAYIR|%31|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%20|--|HAYIR|%29|TEPE_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>TE
↳ PE>TEPE|REGIME_SHIFT:0,50|EVET|3|HAYIR|%28|EVET|3|HAYIR|%7|EVET|3|HAYIR|%14|EVET|2|HAYIR|%35|EVET|3|HAYIR|%28|EVET|3|HAYIR|%28|EVET|3|HAYIR|%
↳ 0|EVET|3|HAYIR|%21|EVET|2|HAYIR|%21|EVET|3|HAYIR|%28|EVET|3|HAYIR|%28|EVET|3|HAYIR|%14|EVET|3|HAYIR|%14|EVET
203 202|2026-07-26 02:22:47|4|--|HAYIR|%31|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%29|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE
↳ |PATTERN_BREAK:0,59|EVET|2|HAYIR|%26|EVET|3|EVET|%6|EVET|2|HAYIR|%13|EVET|3|EVET|%33|EVET|2|HAYIR|%26|EVET|2|HAYIR|%26|EVET|2|HAYIR|%0|EVET|3
↳ |EVET|%20|EVET|2|HAYIR|%20|EVET|2|HAYIR|%26|EVET|2|HAYIR|%26|EVET|3|EVET|%13|EVET|3|EVET|%13|EVET
204 203|2026-07-26 02:22:49|3|1/3|HAYIR|%31|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%20|--|HAYIR|%29|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VAD
↳ I||HAYIR|1|HAYIR|%25|EVET|3|HAYIR|%12|EVET|1|HAYIR|%12|EVET|4|EVET|%37|EVET|1|HAYIR|%25|EVET|1|HAYIR|%25|EVET|1|HAYIR|%0|EVET|3|HAYIR|%25|EVE
↳ T|1|HAYIR|%18|EVET|1|HAYIR|%25|EVET|1|HAYIR|%25|EVET|3|HAYIR|%18|EVET|1|HAYIR|%18|EVET
205 204|2026-07-26 02:22:51|4|--|HAYIR|%30|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%20|--|HAYIR|%29|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VADI|
↳ PATTERN_BREAK:0,59|EVET|2|EVET|%23|EVET|3|HAYIR|%11|EVET|1|HAYIR|%11|EVET|3|HAYIR|%41|EVET|2|EVET|%23|EVET|2|EVET|%23|EVET|3|HAYIR|%0|EVET|4|
↳ HAYIR|%23|EVET|3|HAYIR|%17|EVET|2|EVET|%23|EVET|2|EVET|%23|EVET|3|HAYIR|%17|EVET|2|EVET|%17|EVET
206 205|2026-07-26 02:23:36|2|--|HAYIR|%30|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%28|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE|
↳ PATTERN_BREAK:0,59|EVET|2|HAYIR|%27|EVET|3|HAYIR|%11|EVET|1|EVET|%11|EVET|3|HAYIR|%38|EVET|3|HAYIR|%27|EVET|3|HAYIR|%27|EVET|4|HAYIR|%0|EVET|
↳ 1|EVET|%22|EVET|4|HAYIR|%16|EVET|3|HAYIR|%27|EVET|2|HAYIR|%27|EVET|3|HAYIR|%16|EVET|2|HAYIR|%22|EVET
207 206|2026-07-26 02:24:56|1|1/4|EVET|%31|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%21|--|HAYIR|%28|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE||HAY
↳ IR|1|EVET|%26|EVET|3|HAYIR|%10|EVET|1|EVET|%15|EVET|1|EVET|%36|EVET|1|EVET|%26|EVET|1|EVET|%26|EVET|2|HAYIR|%0|EVET|1|EVET|%26|EVET|1|EVET|%1
↳ 5|EVET|1|EVET|%26|EVET|1|EVET|%26|EVET|3|HAYIR|%15|EVET|1|EVET|%21|EVET
208 207|2026-07-26 02:26:31|1|1/3|HAYIR|%31|%10|EVET|%21|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%20|--|HAYIR|%28|VADI_YON|FRAGMENTARY_2|ARTIS>VADI>VADI||H
↳ AYIR|1|HAYIR|%30|EVET|3|EVET|%10|EVET|1|HAYIR|%20|EVET|1|HAYIR|%40|EVET|1|HAYIR|%30|EVET|1|HAYIR|%30|EVET|3|EVET|%0|EVET|1|HAYIR|%30|EVET|1|H
↳ AYIR|%20|EVET|1|HAYIR|%30|EVET|1|HAYIR|%30|EVET|1|HAYIR|%15|EVET|1|HAYIR|%25|EVET
209 208|2026-07-26 02:27:50|3|4/3|EVET|%32|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|EVET|%28|VADI_YON|FRAGMENTARY_2|TEPE>BLOK_DUZ>VADI|
↳ |HAYIR|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%
↳ 0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 210 ve sonrası)

```
210 209|2026-07-26 02:50:09|1|--|HAYIR|%31|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%20|T•K|EVET|%29|BLOK_TERS_TEKRAR|FRAGMENTARY_2|TEPE>TEPE>
↳ BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%
↳ 0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET
211 210|2026-07-26 02:50:09|1|1/3|HAYIR|%32|%10|EVET|%21|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%20|C•K|HAYIR|%29|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TE
↳ PE|REGIME_SHIFT:0,75|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYI
↳ R|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET
212 211|2026-07-26 02:50:10|3|1/2|HAYIR|%32|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%20|T•K|EVET|%29|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>VADI>DO
↳ NGU||HAYIR|3|EVET|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HA
↳ YIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET
213 212|2026-07-26 02:50:10|3|3/2|HAYIR|%32|%10|EVET|%22|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%21|T•B|HAYIR|%29|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VADI
↳ |PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|
↳ %0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET
214 213|2026-07-26 02:50:16|2|3/4|EVET|%32|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%21|T•K|EVET|%29|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE|
↳ |HAYIR|3|EVET|%40|EVET|3|EVET|%40|EVET|3|EVET|%20|EVET|1|HAYIR|%60|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%60|EVET|1|HAYIR|%20|EVET|4|HAY
↳ IR|%40|EVET|3|EVET|%20|EVET|4|HAYIR|%0|EVET|1|HAYIR|%40|EVET|4|HAYIR|%20|EVET
215 214|2026-07-26 02:50:16|3|4/3|EVET|%33|%11|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%22|C•B|EVET|%30|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE||HAY
↳ IR|4|EVET|%50|EVET|3|HAYIR|%50|EVET|4|EVET|%33|EVET|3|HAYIR|%50|EVET|4|EVET|%16|EVET|4|EVET|%16|EVET|1|HAYIR|%50|EVET|1|HAYIR|%16|EVET|1|HAYI
↳ R|%33|EVET|4|EVET|%33|EVET|4|EVET|%0|EVET|3|HAYIR|%33|EVET|1|HAYIR|%16|EVET
216 215|2026-07-26 02:50:17|4|4|EVET|%33|%12|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%22|C•B|EVET|%30|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI||HAYIR
↳ |4|EVET|%57|EVET|3|HAYIR|%42|EVET|4|EVET|%42|EVET|2|HAYIR|%42|EVET|4|EVET|%28|EVET|4|EVET|%28|EVET|2|HAYIR|%42|EVET|3|HAYIR|%14|EVET|3|HAYIR|
↳ %28|EVET|4|EVET|%42|EVET|4|EVET|%14|EVET|3|HAYIR|%28|EVET|2|HAYIR|%14|EVET
217 216|2026-07-26 02:50:28|4|4/3|EVET|%34|%12|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|T•B|EVET|%31|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE|PATT
↳ ERN_BREAK:0,59|EVET|4|EVET|%62|EVET|3|HAYIR|%37|EVET|4|EVET|%50|EVET|3|HAYIR|%37|EVET|4|EVET|%37|EVET|4|EVET|%37|EVET|3|HAYIR|%37|EVET|3|HAYI
↳ R|%12|EVET|3|HAYIR|%25|EVET|4|EVET|%50|EVET|4|EVET|%25|EVET|3|HAYIR|%25|EVET|3|HAYIR|%12|EVET
218 217|2026-07-26 02:50:30|4|3/4|EVET|%34|%13|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%23|T•B|EVET|%31|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>BLOK_TERS>
↳ TEPE|PATTERN_BREAK:0,59|EVET|3|EVET|%66|EVET|2|HAYIR|%33|EVET|3|EVET|%55|EVET|3|EVET|%33|EVET|3|EVET|%44|EVET|3|EVET|%44|EVET|3|EVET|%33|EVET
↳ |4|HAYIR|%11|EVET|3|EVET|%22|EVET|3|EVET|%55|EVET|3|EVET|%33|EVET|3|EVET|%22|EVET|3|EVET|%11|EVET
219 218|2026-07-26 02:50:33|3|4|EVET|%34|%13|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%24|C•B|EVET|%31|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>VADI||H
↳ AYIR|4|EVET|%70|EVET|3|HAYIR|%30|EVET|4|EVET|%60|EVET|4|EVET|%40|EVET|4|EVET|%50|EVET|4|EVET|%50|EVET|1|HAYIR|%40|EVET|4|EVET|%10|EVET|1|HAYI
↳ R|%30|EVET|4|EVET|%60|EVET|1|HAYIR|%40|EVET|3|HAYIR|%30|EVET|1|HAYIR|%20|EVET
220 219|2026-07-26 02:50:41|4|2|EVET|%35|%14|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|C•K|EVET|%32|VADI_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>VADI|
↳ |HAYIR|2|EVET|%72|EVET|3|HAYIR|%27|EVET|2|EVET|%63|EVET|2|EVET|%45|EVET|2|EVET|%54|EVET|2|EVET|%54|EVET|2|EVET|%36|EVET|4|HAYIR|%18|EVET|3|HA
↳ YIR|%27|EVET|2|EVET|%63|EVET|2|EVET|%36|EVET|3|HAYIR|%27|EVET|2|EVET|%18|EVET
221 220|2026-07-26 02:50:42|2|1/3|EVET|%35|%14|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|T•K=1|EVET|%32|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE|PA
↳ TTERN_BREAK:0,59|EVET|1|EVET|%75|EVET|3|HAYIR|%25|EVET|1|EVET|%66|EVET|3|HAYIR|%50|EVET|1|EVET|%58|EVET|1|EVET|%58|EVET|1|EVET|%41|EVET|1|EVE
↳ T|%16|EVET|3|HAYIR|%25|EVET|1|EVET|%66|EVET|2|HAYIR|%41|EVET|3|HAYIR|%25|EVET|2|HAYIR|%25|EVET
222 221|2026-07-26 02:50:44|1|1|EVET|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|T•K|EVET|%33|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>TEPE|
↳ |HAYIR|1|EVET|%76|EVET|3|HAYIR|%23|EVET|1|EVET|%69|EVET|1|EVET|%46|EVET|1|EVET|%61|EVET|1|EVET|%61|EVET|2|HAYIR|%46|EVET|1|EVET|%23|EVET|1|EV
↳ ET|%23|EVET|1|EVET|%69|EVET|1|EVET|%38|EVET|1|EVET|%23|EVET|1|EVET|%23|EVET
223 222|2026-07-26 02:50:47|1|3|EVET|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|T•B|EVET|%33|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI||HAYIR
↳ |3|EVET|%78|EVET|3|EVET|%21|EVET|3|EVET|%71|EVET|3|EVET|%50|EVET|3|EVET|%64|EVET|3|EVET|%64|EVET|3|EVET|%42|EVET|1|HAYIR|%28|EVET|1|HAYIR|%28
↳ |EVET|3|EVET|%71|EVET|3|EVET|%42|EVET|1|HAYIR|%28|EVET|3|EVET|%28|EVET
224 223|2026-07-26 02:50:48|3|1|HAYIR|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|T•K|EVET|%33|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VADI
↳ ||HAYIR|1|HAYIR|%80|EVET|3|HAYIR|%26|EVET|1|HAYIR|%73|EVET|1|HAYIR|%53|EVET|3|HAYIR|%66|EVET|1|HAYIR|%66|EVET|1|HAYIR|%46|EVET|3|HAYIR|%26|EV
↳ ET|4|HAYIR|%26|EVET|1|HAYIR|%73|EVET|3|HAYIR|%46|EVET|1|HAYIR|%26|EVET|4|HAYIR|%33|EVET
225 224|2026-07-26 02:50:55|2|3/1|EVET|%36|%16|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|T•K|EVET|%34|BLOK_TERS_TEKRAR|FRAGMENTARY_2|VADI>TEPE>B
↳ LOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|3|EVET|%75|EVET|3|EVET|%25|EVET|2|HAYIR|%68|EVET|4|HAYIR|%50|EVET|1|HAYIR|%62|EVET|1|HAYIR
↳ |%62|EVET|1|HAYIR|%43|EVET|1|HAYIR|%25|EVET|3|EVET|%25|EVET|1|HAYIR|%68|EVET|1|HAYIR|%43|EVET|1|HAYIR|%25|EVET|3|EVET|%31|EVET
226 225|2026-07-26 02:51:00|3|1/4|HAYIR|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|C•K|EVET|%34|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|RE
↳ GIME_SHIFT:0,50|EVET|4|HAYIR|%76|EVET|3|HAYIR|%29|EVET|1|HAYIR|%64|EVET|4|HAYIR|%47|EVET|1|HAYIR|%58|EVET|1|HAYIR|%58|EVET|1|HAYIR|%41|EVET|4
↳ |HAYIR|%23|EVET|4|HAYIR|%29|EVET|1|HAYIR|%64|EVET|4|HAYIR|%41|EVET|1|HAYIR|%23|EVET|1|HAYIR|%35|EVET
227 226|2026-07-26 02:51:01|2|2/3|HAYIR|%36|%15|EVET|%20|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%26|C•K|HAYIR|%34|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PAT
↳ TERN_BREAK:0,59|EVET|3|EVET|%72|EVET|3|EVET|%27|EVET|2|HAYIR|%61|EVET|4|HAYIR|%44|EVET|2|HAYIR|%55|EVET|2|HAYIR|%55|EVET|1|HAYIR|%38|EVET|1|H
↳ AYIR|%22|EVET|3|EVET|%27|EVET|2|HAYIR|%61|EVET|4|HAYIR|%38|EVET|1|HAYIR|%22|EVET|3|EVET|%33|EVET
228 227|2026-07-26 02:51:02|3|4/2|HAYIR|%37|%15|EVET|%21|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|T•K|EVET|%34|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_2>VA
↳ DI>VADI||HAYIR|4|HAYIR|%73|EVET|3|HAYIR|%31|EVET|1|HAYIR|%57|EVET|3|HAYIR|%42|EVET|4|HAYIR|%52|EVET|4|HAYIR|%52|EVET|2|EVET|%36|EVET|4|HAYIR|
↳ %21|EVET|2|EVET|%31|EVET|4|HAYIR|%57|EVET|4|HAYIR|%36|EVET|3|HAYIR|%21|EVET|2|EVET|%36|EVET
229 228|2026-07-26 02:51:05|2|3/2|HAYIR|%36|%15|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|C•B|EVET|%35|DONGU_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>DO
↳ NGU||HAYIR|3|HAYIR|%70|EVET|3|HAYIR|%30|EVET|3|HAYIR|%55|EVET|4|EVET|%40|EVET|2|HAYIR|%50|EVET|2|HAYIR|%50|EVET|3|HAYIR|%40|EVET|3|HAYIR|%20|
↳ EVET|3|HAYIR|%35|EVET|3|HAYIR|%55|EVET|3|HAYIR|%35|EVET|3|HAYIR|%20|EVET|3|HAYIR|%40|EVET
230 229|2026-07-26 02:51:08|4|1/2|HAYIR|%36|%15|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|T•K|EVET|%35|DONGU_YON|FRAGMENTARY_2|TEPE>TEPE>DONGU|
↳ PATTERN_BREAK:0,59|EVET|1|HAYIR|%66|EVET|3|EVET|%28|EVET|1|HAYIR|%52|EVET|1|HAYIR|%42|EVET|1|HAYIR|%47|EVET|1|HAYIR|%47|EVET|2|HAYIR|%38|EVET
↳ |2|HAYIR|%19|EVET|3|EVET|%33|EVET|1|HAYIR|%52|EVET|1|HAYIR|%33|EVET|3|EVET|%19|EVET|1|HAYIR|%38|EVET
231 230|2026-07-26 02:51:12|3|4/3|EVET|%37|%16|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|T•B|EVET|%35|DONGU_YON|FRAGMENTARY_2|VADI>VADI>DONGU||
↳ HAYIR|3|HAYIR|%63|EVET|3|HAYIR|%31|EVET|4|EVET|%50|EVET|2|HAYIR|%40|EVET|3|HAYIR|%45|EVET|1|HAYIR|%45|EVET|2|HAYIR|%36|EVET|3|HAYIR|%18|EVET|
↳ 2|HAYIR|%36|EVET|4|EVET|%50|EVET|3|HAYIR|%31|EVET|3|HAYIR|%22|EVET|4|EVET|%36|EVET
232 231|2026-07-26 02:51:13|4|2/4|HAYIR|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|C•B|HAYIR|%35|DONGU_YON|FRAGMENTARY_2|VADI>VADI>DONGU
↳ ||HAYIR|2|HAYIR|%60|EVET|3|HAYIR|%30|EVET|3|HAYIR|%52|EVET|1|EVET|%39|EVET|4|HAYIR|%43|EVET|2|HAYIR|%43|EVET|2|HAYIR|%34|EVET|4|HAYIR|%17|EVE
↳ T|3|HAYIR|%34|EVET|2|HAYIR|%52|EVET|2|HAYIR|%30|EVET|3|HAYIR|%21|EVET|2|HAYIR|%39|EVET
233 232|2026-07-26 02:51:16|1|1/2|HAYIR|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|C•K|EVET|%36|DONGU_YON|FRAGMENTARY_2|BLOK_DUZ>BLOK_TE
↳ RS>DONGU|PATTERN_BREAK:0,59|EVET|1|HAYIR|%58|EVET|4|EVET|%29|EVET|1|HAYIR|%50|EVET|3|HAYIR|%41|EVET|1|HAYIR|%41|EVET|1|HAYIR|%41|EVET|2|HAYIR
↳ |%33|EVET|1|HAYIR|%16|EVET|1|HAYIR|%33|EVET|1|HAYIR|%50|EVET|1|HAYIR|%29|EVET|3|HAYIR|%20|EVET|1|HAYIR|%37|EVET
234 233|2026-07-26 02:51:18|4|3/2|HAYIR|%36|%15|EVET|%21|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|C•K|EVET|%36|DONGU_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>DON
↳ GU|PATTERN_BREAK:0,59|EVET|3|HAYIR|%56|EVET|4|HAYIR|%32|EVET|3|HAYIR|%48|EVET|1|HAYIR|%40|EVET|3|HAYIR|%40|EVET|3|HAYIR|%40|EVET|2|EVET|%32|E
↳ VET|4|HAYIR|%16|EVET|3|HAYIR|%32|EVET|3|HAYIR|%48|EVET|3|HAYIR|%28|EVET|3|HAYIR|%20|EVET|3|HAYIR|%36|EVET
235 234|2026-07-26 02:51:19|2|1/2|HAYIR|%36|%15|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|T•K|EVET|%36|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>VADI>D
↳ ONGU||HAYIR|2|HAYIR|%53|EVET|3|EVET|%30|EVET|1|HAYIR|%46|EVET|1|HAYIR|%38|EVET|1|HAYIR|%38|EVET|2|HAYIR|%38|EVET|3|EVET|%34|EVET|3|EVET|%15|E
↳ VET|3|EVET|%30|EVET|1|HAYIR|%46|EVET|2|HAYIR|%26|EVET|1|HAYIR|%19|EVET|2|HAYIR|%34|EVET
236 235|2026-07-26 02:51:24|3|2/1|HAYIR|%37|%15|EVET|%21|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|T•K|EVET|%37|DONGU_TERS_YON|FRAGMENTARY_2|VADI>VADI>DO
↳ NGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%51|EVET|3|HAYIR|%33|EVET|1|EVET|%44|EVET|3|HAYIR|%37|EVET|3|HAYIR|%37|EVET|2|HAYIR|%37|EVET|2|HAYIR
↳ |%37|EVET|4|HAYIR|%18|EVET|2|HAYIR|%33|EVET|2|HAYIR|%44|EVET|1|EVET|%25|EVET|1|EVET|%18|EVET|2|HAYIR|%33|EVET
237 236|2026-07-26 02:51:28|1|--|HAYIR|%36|%15|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|T•B|EVET|%37|DONGU_TERS_YON|FRAGMENTARY_2|DONGU_TERS>D
↳ ONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%50|EVET|3|HAYIR|%32|EVET|4|EVET|%46|EVET|3|HAYIR|%35|EVET|1|HAYIR|%35|EVET|1|HAYIR|%35|EVET|
↳ 4|EVET|%35|EVET|1|HAYIR|%17|EVET|1|HAYIR|%32|EVET|1|HAYIR|%42|EVET|2|HAYIR|%28|EVET|1|HAYIR|%21|EVET|2|HAYIR|%32|EVET
238 237|2026-07-26 02:51:42|4|2/3|HAYIR|%37|%15|EVET|%21|%0|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%0|C•K|HAYIR|%37|%0|DONGU_TERS_YON|FRAGMENTARY_2|TE
↳ PE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%0|2|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|
↳ 2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|HAYIR|%
↳ 0|EVET|%0
239 238|2026-07-29 19:54:24|3|4/3|HAYIR|%37|%15|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%32|C•B|EVET|%37|%58|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%34|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%58|4|HAYIR|%0|EVET|%47|3|HAYIR|%0|EVET|%
↳ 38|3|HAYIR|%0|EVET|%40|2|EVET|%0|EVET|%29|4|HAYIR|%0|EVET|%37|2|EVET|%0|EVET|%26|3|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%72|1|HAYIR|%0|EVET|%26|
↳ 4|HAYIR|%0|EVET|%29
240 239|2026-07-29 19:54:25|2|3/4|HAYIR|%36|%15|HAYIR|%21|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%48|C•B|EVET|%37|%54|TEPE_YON|FRAGMENTARY_2|VADI>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%61|3|HAYIR|%0|EVET|%48|3|HAYIR|%0|EVET|%30|2|EVET|%0|EVET|%45|4|HAYIR|%0|EVET|%40|3|HAYIR|%0|EVET|%29|3|H
↳ AYIR|%0|EVET|%38|3|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%51|1|HAYIR|%0|EVET|%26|3|HA
↳ YIR|%0|EVET|%36
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[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 241 ve sonrası)

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241 240|2026-07-29 19:54:25|2|3/4|HAYIR|%36|%15|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%36|T•K|EVET|%38|%52|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%43|2|HAYIR|%0|EVET|%36|3|HAYIR|%0|EVET|%29|4|HAYIR|%0|EVET|%38|3|HAYIR|%0|EVET|%38|2|HAYIR|%0|EVET|%43|
↳ 2|HAYIR|%0|EVET|%58|4|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%46|3|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%48|1|EVET|%0|EVET|%26|3|
↳ HAYIR|%0|EVET|%29
242 241|2026-07-29 19:54:26|1|2/1|EVET|%36|%15|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%59|T•B|HAYIR|%38|%56|TEPE_YON|FRAGMENTARY_2|DONGU
↳ >DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%30|1|HAYIR|%0|EVET|%59|3|HAYIR|%0|EVET|%27|2|EVET|%0|EVET|%58|4|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%37|1|
↳ HAYIR|%0|EVET|%52|4|HAYIR|%0|EVET|%35|1|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%70|3|HAYIR|%0|EVET|%27|1|H
↳ AYIR|%0|EVET|%48
243 242|2026-07-29 19:54:27|2|3/4|HAYIR|%36|%15|HAYIR|%21|%41|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%42|T•B|HAYIR|%37|%54|VADI_YON|FRAGMENTARY_2|DONG
↳ U>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%67|4|HAYIR|%0|EVET|%42|3|HAYIR|%20|EVET|%28|3|HAYIR|%40|EVET|%40|1|HAYIR|%0|EVET|%69|4|HAYIR|%0|EVET|%2
↳ 6|4|HAYIR|%0|EVET|%38|3|HAYIR|%20|EVET|%33|4|HAYIR|%0|EVET|%26|3|HAYIR|%40|EVET|%27|4|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%25|3|HAYIR|%20|EVET|
↳ %27|4|HAYIR|%0|EVET|%33
244 243|2026-07-29 19:54:27|2|2/3|HAYIR|%36|%15|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%24|%34|T•B|EVET|%38|%55|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%33|1|EVET|%0|EVET|%34|3|HAYIR|%16|EVET|%27|2|HAYIR|%33|EVET|%55|1|EVET|%0|EVET|%33|3|HAYIR|%0|EVET|%
↳ 28|1|EVET|%0|EVET|%29|1|EVET|%16|EVET|%31|3|HAYIR|%0|EVET|%41|3|HAYIR|%33|EVET|%27|1|EVET|%0|EVET|%27|1|EVET|%0|EVET|%42|3|HAYIR|%16|EVET|%27
↳ |1|EVET|%0|EVET|%29
245 244|2026-07-29 19:54:28|1|2/1|EVET|%36|%15|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%53|T•K|EVET|%38|%54|BLOK_TERS_TEKRAR|FRAGMENTARY_
↳ 2|DONGU>DONGU_TERS>BLOK_TERS|REGIME_SHIFT:0,75|EVET|%26|1|HAYIR|%14|EVET|%53|3|HAYIR|%14|EVET|%30|2|EVET|%28|EVET|%56|4|HAYIR|%14|EVET|%32|1|
↳ HAYIR|%0|EVET|%43|1|HAYIR|%14|EVET|%46|4|HAYIR|%28|EVET|%32|4|HAYIR|%0|EVET|%27|1|HAYIR|%28|EVET|%31|1|HAYIR|%14|EVET|%31|3|HAYIR|%14|EVET|%7
↳ 0|3|HAYIR|%14|EVET|%27|1|HAYIR|%14|EVET|%42
246 245|2026-07-29 19:54:29|2|2/3|HAYIR|%37|%15|EVET|%21|%36|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%33|C•K|HAYIR|%38|%55|VADI_YON|FRAGMENTARY_2|DONGU
↳ >DONGU_TERS>VADI|REGIME_SHIFT:0,50|EVET|%56|2|HAYIR|%12|EVET|%33|2|HAYIR|%12|EVET|%27|3|EVET|%37|EVET|%32|1|HAYIR|%12|EVET|%54|2|HAYIR|%0|EVE
↳ T|%26|4|HAYIR|%12|EVET|%35|3|EVET|%25|EVET|%32|2|HAYIR|%0|EVET|%30|3|EVET|%25|EVET|%26|4|HAYIR|%12|EVET|%26|2|HAYIR|%12|EVET|%43|3|EVET|%12|E
↳ VET|%27|2|HAYIR|%12|EVET|%30
247 246|2026-07-29 19:54:30|3|3/2|HAYIR|%37|%15|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%24|%38|C•K|EVET|%38|%52|DONGU_YON|FRAGMENTARY_2|DONG
↳ U>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%52|2|HAYIR|%11|EVET|%38|3|HAYIR|%11|EVET|%26|3|HAYIR|%44|EVET|%87|3|HAYIR|%11|EVET|%50|1|EVET|%0|EVET|%
↳ 35|1|EVET|%11|EVET|%38|2|HAYIR|%33|EVET|%33|2|HAYIR|%0|EVET|%35|2|HAYIR|%33|EVET|%28|3|HAYIR|%11|EVET|%33|1|EVET|%11|EVET|%83|3|HAYIR|%22|EVE
↳ T|%27|2|HAYIR|%11|EVET|%31
248 247|2026-07-29 19:54:31|1|4/2|HAYIR|%37|%15|EVET|%21|%55|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|%35|C•K|EVET|%38|%53|DONGU_YON|FRAGMENTARY_2|DONGU>
↳ TEPE>DONGU||HAYIR|%54|2|EVET|%10|EVET|%35|3|HAYIR|%10|EVET|%27|4|HAYIR|%40|EVET|%60|3|HAYIR|%10|EVET|%48|2|EVET|%10|EVET|%32|2|EVET|%20|EVET|
↳ %38|2|EVET|%30|EVET|%33|1|HAYIR|%0|EVET|%35|1|HAYIR|%30|EVET|%31|2|EVET|%10|EVET|%28|2|EVET|%20|EVET|%47|3|HAYIR|%20|EVET|%27|2|EVET|%10|EVET
↳ |%37
249 248|2026-07-29 19:54:31|2|4/2|EVET|%37|%16|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%32|C•K|EVET|%39|%52|DONGU_YON|FRAGMENTARY_2|AZALI
↳ S>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%18|EVET|%32|1|HAYIR|%9|EVET|%26|4|EVET|%36|EVET|%49|1|HAYIR|%9|EVET|%42|2|HAYIR|%18|EVET|%
↳ 45|2|HAYIR|%27|EVET|%42|3|HAYIR|%36|EVET|%34|2|HAYIR|%0|EVET|%31|3|HAYIR|%27|EVET|%28|2|HAYIR|%18|EVET|%30|4|EVET|%27|EVET|%69|1|HAYIR|%18|EV
↳ ET|%26|3|HAYIR|%18|EVET|%29
250 249|2026-07-29 19:54:32|4|1/3|HAYIR|%37|%16|HAYIR|%21|%49|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%41|T•K|HAYIR|%39|%58|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%60|1|HAYIR|%16|EVET|%41|3|HAYIR|%8|EVET|%27|1|HAYIR|%41|EVET|%57|1|HAYIR|%8|EVET|%67|2|HAYIR|%16|EVET|%
↳ 28|1|HAYIR|%25|EVET|%36|2|HAYIR|%33|EVET|%31|2|HAYIR|%0|EVET|%31|3|HAYIR|%25|EVET|%30|1|HAYIR|%16|EVET|%36|1|HAYIR|%33|EVET|%69|1|HAYIR|%16|E
↳ VET|%26|3|HAYIR|%16|EVET|%31
251 250|2026-07-29 19:54:32|4|3/2|EVET|%37|%16|HAYIR|%21|%43|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%24|%49|T•B|EVET|%39|%51|VADI_YON|FRAGMENTARY_2|DONGU>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%56|3|EVET|%15|EVET|%49|3|EVET|%7|EVET|%25|3|EVET|%38|EVET|%81|3|EVET|%7|EVET|%47|2|HAYIR|%15|EVET|%44|3|EVE
↳ T|%23|EVET|%39|3|EVET|%30|EVET|%46|3|EVET|%0|EVET|%34|3|EVET|%23|EVET|%29|3|EVET|%15|EVET|%43|2|HAYIR|%30|EVET|%75|1|HAYIR|%15|EVET|%26|3|EVE
↳ T|%15|EVET|%38
252 251|2026-07-29 19:54:33|3|4|HAYIR|%37|%16|HAYIR|%21|%74|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%37|C•B|EVET|%39|%56|TEPE_YON|FRAGMENTARY_2|TEPE>TE
↳ PE>TEPE||HAYIR|%72|4|HAYIR|%21|EVET|%37|3|EVET|%14|EVET|%29|4|HAYIR|%42|EVET|%80|4|HAYIR|%14|EVET|%48|1|HAYIR|%14|EVET|%28|4|HAYIR|%28|EVET|%
↳ 35|2|HAYIR|%35|EVET|%31|2|HAYIR|%7|EVET|%32|2|HAYIR|%28|EVET|%27|4|HAYIR|%21|EVET|%37|4|HAYIR|%28|EVET|%73|1|HAYIR|%14|EVET|%26|2|HAYIR|%21|E
↳ VET|%27
253 252|2026-07-29 19:54:34|3|1/3|HAYIR|%37|%16|EVET|%21|%34|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%33|T•B|EVET|%39|%52|TEPE_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%46|3|EVET|%20|EVET|%33|4|HAYIR|%20|EVET|%35|1|HAYIR|%40|EVET|%35|4|HAYIR|%13|EVET|%34|3|EVET|%13|
↳ EVET|%33|3|EVET|%26|EVET|%39|2|HAYIR|%33|EVET|%40|3|EVET|%6|EVET|%36|2|HAYIR|%26|EVET|%26|3|EVET|%20|EVET|%28|3|EVET|%26|EVET|%73|1|HAYIR|%13
↳ |EVET|%26|4|HAYIR|%20|EVET|%26
254 253|2026-07-29 19:54:35|3|4/1|HAYIR|%37|%16|HAYIR|%21|%37|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%34|T•B|HAYIR|%39|%54|VADI_YON|FRAGMENTARY_2|VADI
↳ >VADI>VADI|PATTERN_BREAK:0,59|EVET|%42|4|HAYIR|%25|EVET|%34|3|HAYIR|%18|EVET|%30|1|HAYIR|%37|EVET|%40|4|HAYIR|%12|EVET|%39|1|HAYIR|%18|EVET|%
↳ 30|4|HAYIR|%31|EVET|%41|4|HAYIR|%31|EVET|%38|3|HAYIR|%12|EVET|%38|2|EVET|%25|EVET|%26|4|HAYIR|%25|EVET|%31|4|HAYIR|%31|EVET|%60|1|HAYIR|%12|E
↳ VET|%26|3|HAYIR|%18|EVET|%33
255 254|2026-07-29 19:54:36|2|3|HAYIR|%37|%16|HAYIR|%21|%80|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%52|T•K|EVET|%40|%54|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE||HAYIR|%90|3|HAYIR|%23|EVET|%52|3|HAYIR|%17|EVET|%28|3|HAYIR|%35|EVET|%69|1|EVET|%11|EVET|%43|3|HAYIR|%17|EVET|%37|3|HAYIR|%29|EVET|
↳ %53|3|HAYIR|%29|EVET|%32|3|HAYIR|%11|EVET|%30|3|HAYIR|%29|EVET|%27|3|HAYIR|%23|EVET|%38|3|HAYIR|%29|EVET|%90|3|HAYIR|%11|EVET|%27|3|HAYIR|%17
↳ |EVET|%33
256 255|2026-07-29 19:54:36|1|1/2|EVET|%37|%16|HAYIR|%21|%51|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%47|C•K|EVET|%40|%59|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE|PATTERN_BREAK:0,59|EVET|%70|1|EVET|%22|EVET|%47|1|EVET|%16|EVET|%29|1|EVET|%33|EVET|%55|1|EVET|%16|EVET|%34|1|EVET|%16|EVET|%34|1|EV
↳ ET|%27|EVET|%53|2|HAYIR|%27|EVET|%36|1|EVET|%11|EVET|%33|1|EVET|%27|EVET|%30|1|EVET|%22|EVET|%37|1|EVET|%27|EVET|%89|3|HAYIR|%11|EVET|%27|1|E
↳ VET|%16|EVET|%38
257 256|2026-07-29 19:54:37|1|3/1|EVET|%38|%16|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%48|T•B|EVET|%40|%55|BLOK_TERS_TEKRAR|FRAGMENTARY_2
↳ |BLOK_TERS>DONGU>BLOK_TERS|REGIME_SHIFT:0,75|PATTERN_BREAK:0,59|EVET|%51|3|EVET|%26|EVET|%48|2|HAYIR|%21|EVET|%31|4|HAYIR|%36|EVET|%35|3|EVET
↳ |%21|EVET|%47|1|HAYIR|%21|EVET|%31|3|EVET|%31|EVET|%37|3|EVET|%26|EVET|%44|3|EVET|%15|EVET|%34|1|HAYIR|%31|EVET|%31|3|EVET|%26|EVET|%34|3|EVE
↳ T|%31|EVET|%83|3|EVET|%10|EVET|%27|3|EVET|%21|EVET|%37
258 257|2026-07-29 19:54:40|3|1/3|EVET|%38|%17|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%32|T•K|EVET|%40|%56|VADI_YON|WEAK_PERIODIC_3|BLOK_
↳ TERS>DONGU>VADI|REGIME_SHIFT:0,50|EVET|%31|1|EVET|%30|EVET|%32|3|HAYIR|%20|EVET|%31|2|HAYIR|%35|EVET|%30|1|EVET|%25|EVET|%31|2|HAYIR|%20|EVET
↳ |%27|4|HAYIR|%35|EVET|%30|2|HAYIR|%30|EVET|%31|3|HAYIR|%20|EVET|%31|2|HAYIR|%30|EVET|%27|1|EVET|%30|EVET|%28|3|HAYIR|%35|EVET|%41|3|HAYIR|%15
↳ |EVET|%27|2|HAYIR|%25|EVET|%27
259 258|2026-07-29 19:54:41|1|1/3|HAYIR|%38|%17|EVET|%21|%40|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%38|T•K|EVET|%41|%56|BLOK_TERS_TEKRAR|FRAGMENTARY_
↳ 2|VADI>VADI>BLOK_TERS|REGIME_SHIFT:0,75|PATTERN_BREAK:0,61|EVET|%58|1|HAYIR|%33|EVET|%38|3|EVET|%19|EVET|%31|1|HAYIR|%33|EVET|%69|3|EVET|%28|
↳ EVET|%47|1|HAYIR|%19|EVET|%44|1|HAYIR|%33|EVET|%53|2|HAYIR|%28|EVET|%35|1|HAYIR|%19|EVET|%34|1|HAYIR|%28|EVET|%31|1|HAYIR|%33|EVET|%38|1|HAYI
↳ R|%33|EVET|%55|3|EVET|%14|EVET|%27|2|HAYIR|%23|EVET|%41
260 259|2026-07-29 19:54:41|3|2/4|HAYIR|%39|%17|EVET|%21|%42|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%42|C•K|EVET|%41|%56|VADI_YON|FRAGMENTARY_2|VADI>T
↳ EPE>VADI|REGIME_SHIFT:0,75|PATTERN_BREAK:0,59|EVET|%66|2|HAYIR|%31|EVET|%42|3|HAYIR|%22|EVET|%32|2|HAYIR|%31|EVET|%70|2|HAYIR|%31|EVET|%43|2|
↳ HAYIR|%18|EVET|%30|2|HAYIR|%31|EVET|%42|1|HAYIR|%27|EVET|%31|2|HAYIR|%18|EVET|%34|2|HAYIR|%27|EVET|%27|2|HAYIR|%31|EVET|%39|2|HAYIR|%31|EVET|
↳ %66|3|HAYIR|%18|EVET|%27|1|HAYIR|%22|EVET|%28
261 260|2026-07-29 19:54:42|4|3/2|EVET|%39|%17|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%37|T•B|EVET|%41|%56|VADI_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_1>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%30|EVET|%37|3|EVET|%21|EVET|%33|3|EVET|%30|EVET|%79|4|HAYIR|%30|EVET|%31|3|EVET|%17|
↳ EVET|%46|3|EVET|%30|EVET|%57|3|EVET|%26|EVET|%30|3|EVET|%17|EVET|%30|3|EVET|%26|EVET|%32|3|EVET|%30|EVET|%42|2|HAYIR|%30|EVET|%65|3|EVET|%17|
↳ EVET|%27|2|HAYIR|%21|EVET|%35
262 261|2026-07-29 19:54:44|3|4/2|HAYIR|%39|%17|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%39|C•B|HAYIR|%41|%55|DONGU_TERS_YON|FRAGMENTARY_
↳ 2|VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%29|EVET|%39|3|HAYIR|%25|EVET|%33|4|HAYIR|%33|EVET|%40|2|HAYIR|%29|EVET|%37|4|HAYI
↳ R|%20|EVET|%41|4|HAYIR|%33|EVET|%57|1|EVET|%29|EVET|%29|2|HAYIR|%20|EVET|%28|2|HAYIR|%29|EVET|%26|4|HAYIR|%33|EVET|%33|3|HAYIR|%29|EVET|%50|1
↳ |EVET|%20|EVET|%26|3|HAYIR|%20|EVET|%27
263 262|2026-07-29 19:54:44|1|1/2|HAYIR|%38|%17|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%40|T•K|HAYIR|%41|%51|TEPE_YON|FRAGMENTARY_2|VADI
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%28|EVET|%40|3|HAYIR|%24|EVET|%41|1|HAYIR|%32|EVET|%42|1|HAYIR|%28|EVET|%27|2|HAYIR|%20|EVET|%
↳ 30|2|HAYIR|%32|EVET|%46|2|HAYIR|%32|EVET|%32|1|HAYIR|%20|EVET|%34|1|HAYIR|%28|EVET|%30|1|HAYIR|%32|EVET|%28|2|HAYIR|%28|EVET|%61|1|HAYIR|%24|
↳ EVET|%26|2|HAYIR|%20|EVET|%37
264 263|2026-07-29 19:54:45|4|3/4|HAYIR|%39|%17|EVET|%21|%33|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%35|C•K|EVET|%41|%55|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%43|3|HAYIR|%26|EVET|%35|3|HAYIR|%23|EVET|%38|4|EVET|%30|EVET|%40|4|EVET|%26|EVET|%38|4|EVET|%19|EVET|%41|
↳ 4|EVET|%30|EVET|%45|3|HAYIR|%30|EVET|%33|3|HAYIR|%19|EVET|%30|3|HAYIR|%26|EVET|%33|3|HAYIR|%30|EVET|%31|4|EVET|%26|EVET|%50|1|HAYIR|%23|EVET|
↳ %26|3|HAYIR|%19|EVET|%40
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 265 ve sonrası)

```
265 264|2026-07-29 19:54:45|4|3/4|HAYIR|%39|%17|HAYIR|%21|%57|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%66|T•B|HAYIR|%41|%58|DONGU_YON|FRAGMENTARY_2|DON
↳ GU_TERS>BLOK_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%73|3|HAYIR|%25|EVET|%66|4|HAYIR|%22|EVET|%36|3|HAYIR|%33|EVET|%95|3|HAYIR|%29|EVET|%63|3|HAY
↳ IR|%22|EVET|%46|3|HAYIR|%33|EVET|%75|3|HAYIR|%29|EVET|%50|3|HAYIR|%18|EVET|%48|3|HAYIR|%25|EVET|%32|3|HAYIR|%29|EVET|%57|3|HAYIR|%29|EVET|%71
↳ |1|HAYIR|%22|EVET|%26|3|HAYIR|%18|EVET|%45
266 265|2026-07-29 19:54:48|2|3/1|HAYIR|%38|%17|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|T•K|HAYIR|%41|%53|TEPE_YON|FRAGMENTARY_2|VADI
↳ >VADI>TEPE|PATTERN_BREAK:0,59|EVET|%46|1|HAYIR|%25|EVET|%36|3|HAYIR|%21|EVET|%31|3|HAYIR|%32|EVET|%70|3|HAYIR|%28|EVET|%51|1|HAYIR|%21|EVET|%
↳ 31|2|HAYIR|%32|EVET|%35|3|HAYIR|%28|EVET|%31|2|HAYIR|%17|EVET|%27|3|HAYIR|%25|EVET|%27|3|HAYIR|%28|EVET|%34|1|HAYIR|%28|EVET|%66|1|HAYIR|%21|
↳ EVET|%26|2|HAYIR|%17|EVET|%28
267 266|2026-07-29 19:54:49|4|1/3|HAYIR|%38|%17|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%31|T•B|EVET|%41|%59|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%24|EVET|%31|4|EVET|%20|EVET|%29|1|HAYIR|%31|EVET|%64|1|HAYIR|%27|EVET|%39|3|HAYIR|%20
↳ |EVET|%29|1|HAYIR|%31|EVET|%30|3|HAYIR|%27|EVET|%32|2|HAYIR|%17|EVET|%27|3|HAYIR|%24|EVET|%31|1|HAYIR|%27|EVET|%29|2|HAYIR|%27|EVET|%45|1|HAY
↳ IR|%20|EVET|%26|3|HAYIR|%17|EVET|%29
268 267|2026-07-29 19:54:49|4|3/2|HAYIR|%38|%16|HAYIR|%21|%58|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%54|C•B|HAYIR|%41|%55|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>VADI>DONGU||HAYIR|%72|3|HAYIR|%23|EVET|%54|3|HAYIR|%23|EVET|%29|3|HAYIR|%30|EVET|%83|3|HAYIR|%26|EVET|%49|2|HAYIR|%20|EVET|%42|3|HAYIR|%30|
↳ EVET|%45|3|HAYIR|%26|EVET|%37|3|HAYIR|%16|EVET|%42|3|HAYIR|%23|EVET|%31|3|HAYIR|%26|EVET|%45|2|HAYIR|%26|EVET|%63|3|HAYIR|%20|EVET|%27|3|HAYI
↳ R|%16|EVET|%40
269 268|2026-07-29 19:55:00|1|3/1|HAYIR|%38|%16|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%32|T•B|HAYIR|%41|%52|VADI_YON|FRAGMENTARY_2|BLOK
↳ _TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%36|1|HAYIR|%22|EVET|%32|3|HAYIR|%22|EVET|%34|3|HAYIR|%29|EVET|%100|2|EVET|%25|EVET|%45|3|HAYIR|%19|E
↳ VET|%45|1|HAYIR|%29|EVET|%34|4|HAYIR|%25|EVET|%31|1|HAYIR|%16|EVET|%26|1|HAYIR|%22|EVET|%29|3|HAYIR|%25|EVET|%38|3|HAYIR|%25|EVET|%78|3|HAYIR
↳ |%19|EVET|%27|1|HAYIR|%16|EVET|%35
270 269|2026-07-29 19:55:01|2|4/1|EVET|%38|%17|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%44|C•K|EVET|%41|%55|TEPE_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%47|4|EVET|%21|EVET|%44|3|HAYIR|%21|EVET|%32|4|EVET|%28|EVET|%81|1|HAYIR|%28|EVET|%51|4|EVET|%18|E
↳ VET|%34|4|EVET|%28|EVET|%48|3|HAYIR|%25|EVET|%29|1|HAYIR|%15|EVET|%30|3|HAYIR|%21|EVET|%26|4|EVET|%25|EVET|%36|4|EVET|%25|EVET|%86|3|HAYIR|%1
↳ 8|EVET|%27|4|EVET|%15|EVET|%32
271 270|2026-07-29 19:55:01|4|1/3|HAYIR|%38|%17|HAYIR|%21|%56|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%31|T•K|HAYIR|%41|%57|DONGU_YON|FRAGMENTARY_2|BLO
↳ K_TERS>TEPE>DONGU||HAYIR|%65|1|HAYIR|%24|EVET|%31|3|HAYIR|%21|EVET|%40|1|HAYIR|%30|EVET|%40|1|HAYIR|%27|EVET|%57|3|HAYIR|%21|EVET|%32|1|HAYIR
↳ |%30|EVET|%37|3|HAYIR|%24|EVET|%31|4|EVET|%15|EVET|%30|3|HAYIR|%21|EVET|%30|3|HAYIR|%27|EVET|%29|1|HAYIR|%27|EVET|%69|3|HAYIR|%18|EVET|%27|3|
↳ HAYIR|%18|EVET|%26
272 271|2026-07-29 19:55:02|4|3|HAYIR|%38|%17|HAYIR|%21|%65|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%53|T•B|EVET|%41|%55|DONGU_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>DONGU>DONGU||HAYIR|%73|3|HAYIR|%23|EVET|%53|3|HAYIR|%20|EVET|%29|3|HAYIR|%29|EVET|%70|4|HAYIR|%26|EVET|%32|3|HAYIR|%20|EVET|%44|3|HAYIR|%
↳ 29|EVET|%61|3|HAYIR|%23|EVET|%31|3|HAYIR|%17|EVET|%33|3|HAYIR|%20|EVET|%29|3|HAYIR|%26|EVET|%43|2|HAYIR|%26|EVET|%58|3|HAYIR|%17|EVET|%27|3|H
↳ AYIR|%17|EVET|%35
273 272|2026-07-29 19:55:04|1|2/3|HAYIR|%38|%17|HAYIR|%21|%48|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%24|%54|C•K|EVET|%41|%54|DONGU_YON|FRAGMENTARY_2|BLOK
↳ _TERS>DONGU>DONGU||HAYIR|%53|2|HAYIR|%22|EVET|%54|3|HAYIR|%20|EVET|%29|2|HAYIR|%28|EVET|%97|4|HAYIR|%25|EVET|%39|4|HAYIR|%20|EVET|%25|2|HAYIR
↳ |%28|EVET|%44|2|HAYIR|%22|EVET|%32|1|EVET|%17|EVET|%26|1|EVET|%20|EVET|%28|2|HAYIR|%25|EVET|%41|3|HAYIR|%25|EVET|%68|3|HAYIR|%17|EVET|%27|2|H
↳ AYIR|%17|EVET|%36
274 273|2026-07-29 19:55:05|1|3/1|HAYIR|%37|%16|HAYIR|%20|%46|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%58|T•K|HAYIR|%41|%54|DONGU_TERS_YON|FRAGMENTARY_
↳ 2|VADI>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%58|3|HAYIR|%22|EVET|%58|3|HAYIR|%19|EVET|%30|3|HAYIR|%27|EVET|%66|3|HAYIR|%25|EVET|%64|3|HAYI
↳ R|%19|EVET|%37|3|HAYIR|%27|EVET|%59|3|HAYIR|%22|EVET|%46|1|HAYIR|%19|EVET|%34|1|HAYIR|%22|EVET|%30|3|HAYIR|%25|EVET|%47|3|HAYIR|%25|EVET|%86|
↳ 3|HAYIR|%16|EVET|%27|3|HAYIR|%16|EVET|%41
275 274|2026-07-29 19:55:08|4|3/2|HAYIR|%38|%16|EVET|%21|%41|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%45|T•B|HAYIR|%41|%51|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%21|EVET|%45|3|HAYIR|%18|EVET|%29|3|HAYIR|%27|EVET|%100|2|EVET|%24|EVET|%36|3|HAYIR|%18|EVET|%4
↳ 3|3|HAYIR|%27|EVET|%54|3|HAYIR|%21|EVET|%30|4|HAYIR|%18|EVET|%32|3|HAYIR|%21|EVET|%28|3|HAYIR|%24|EVET|%42|3|HAYIR|%24|EVET|%96|1|HAYIR|%16|E
↳ VET|%26|3|HAYIR|%16|EVET|%33
276 275|2026-07-29 19:55:09|2|1/4|HAYIR|%38|%16|HAYIR|%21|%25|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%24|%29|C•B|EVET|%41|%51|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%27|2|EVET|%21|EVET|%29|3|HAYIR|%18|EVET|%26|3|HAYIR|%26|EVET|%46|4|HAYIR|%26|EVET|%37|1|HAYIR|%18|EVET|%2
↳ 7|2|EVET|%26|EVET|%31|4|HAYIR|%21|EVET|%33|1|HAYIR|%18|EVET|%29|4|HAYIR|%21|EVET|%27|3|HAYIR|%23|EVET|%28|1|HAYIR|%23|EVET|%47|1|HAYIR|%15|EV
↳ ET|%26|4|HAYIR|%15|EVET|%28
277 276|2026-07-29 19:55:10|2|4/3|HAYIR|%38|%16|EVET|%21|%31|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%24|%33|T•B|EVET|%41|%53|TEPE_YON|FRAGMENTARY_2|VADI>V
↳ ADI>TEPE|PATTERN_BREAK:0,59|EVET|%36|4|HAYIR|%23|EVET|%33|3|EVET|%17|EVET|%28|4|HAYIR|%25|EVET|%52|1|HAYIR|%25|EVET|%37|4|HAYIR|%17|EVET|%44|
↳ 4|HAYIR|%28|EVET|%48|1|HAYIR|%20|EVET|%35|3|EVET|%17|EVET|%31|4|HAYIR|%20|EVET|%27|4|HAYIR|%23|EVET|%33|3|EVET|%23|EVET|%66|1|HAYIR|%15|EVET|
↳ %26|1|HAYIR|%15|EVET|%34
278 277|2026-07-29 19:55:12|3|1/4|HAYIR|%38|%16|EVET|%21|%27|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%31|T•B|EVET|%42|%52|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%39|1|HAYIR|%22|EVET|%31|3|HAYIR|%20|EVET|%30|3|HAYIR|%25|EVET|%43|3|HAYIR|%25|EVET|%30|4|EVET|%17|EVET|%31|
↳ 4|EVET|%27|EVET|%30|1|HAYIR|%20|EVET|%30|4|EVET|%20|EVET|%29|1|HAYIR|%20|EVET|%27|3|HAYIR|%22|EVET|%25|1|HAYIR|%25|EVET|%34|1|HAYIR|%15|EVET|
↳ %26|1|HAYIR|%15|EVET|%35
279 278|2026-07-29 19:55:13|4|4/2|HAYIR|%38|%16|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%31|C•K|HAYIR|%41|%55|VADI_YON|FRAGMENTARY_2|TEPE
↳ >DONGU>VADI|PATTERN_BREAK:0,59|EVET|%47|4|HAYIR|%21|EVET|%31|3|EVET|%19|EVET|%29|2|HAYIR|%24|EVET|%36|1|HAYIR|%24|EVET|%32|3|EVET|%19|EVET|%4
↳ 3|3|EVET|%29|EVET|%49|2|HAYIR|%19|EVET|%30|4|HAYIR|%21|EVET|%38|3|EVET|%19|EVET|%27|3|EVET|%21|EVET|%30|4|HAYIR|%24|EVET|%89|1|HAYIR|%14|EVET
↳ |%26|2|HAYIR|%14|EVET|%32
280 279|2026-07-29 19:55:14|3|3/4|EVET|%38|%16|HAYIR|%21|%50|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%24|%35|T•B|EVET|%42|%55|TEPE_YON|FRAGMENTARY_2|VADI>DO
↳ NGU>TEPE||HAYIR|%54|3|EVET|%21|EVET|%35|3|EVET|%21|EVET|%32|1|HAYIR|%23|EVET|%33|1|HAYIR|%23|EVET|%31|3|EVET|%21|EVET|%44|3|EVET|%30|EVET|%55
↳ |4|HAYIR|%19|EVET|%31|4|HAYIR|%21|EVET|%32|1|HAYIR|%21|EVET|%26|3|EVET|%23|EVET|%31|3|EVET|%23|EVET|%48|1|HAYIR|%14|EVET|%26|1|HAYIR|%14|EVET
↳ |%27
281 280|2026-07-29 19:55:15|3|2/4|HAYIR|%38|%16|HAYIR|%21|%46|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%24|%41|C•B|HAYIR|%41|%54|TEPE_YON|FRAGMENTARY_2|VADI
↳ >DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%23|EVET|%41|3|HAYIR|%23|EVET|%32|2|HAYIR|%23|EVET|%34|2|HAYIR|%23|EVET|%41|2|HAYIR|%23|EVET|
↳ %42|2|HAYIR|%32|EVET|%62|2|HAYIR|%18|EVET|%37|3|HAYIR|%20|EVET|%33|1|EVET|%20|EVET|%25|2|HAYIR|%25|EVET|%37|3|HAYIR|%25|EVET|%79|3|HAYIR|%13|
↳ EVET|%27|3|HAYIR|%13|EVET|%29
282 281|2026-07-29 19:55:16|1|2/3|HAYIR|%38|%16|EVET|%21|%47|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%44|T•K|EVET|%42|%53|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%22|EVET|%44|3|EVET|%22|EVET|%29|3|EVET|%22|EVET|%55|2|HAYIR|%22|EVET|%35|2|HAYIR|%22|EV
↳ ET|%42|2|HAYIR|%31|EVET|%60|2|HAYIR|%18|EVET|%32|1|HAYIR|%20|EVET|%34|1|HAYIR|%22|EVET|%29|2|HAYIR|%25|EVET|%35|2|HAYIR|%25|EVET|%99|3|EVET|%
↳ 13|EVET|%27|2|HAYIR|%13|EVET|%34
283 282|2026-07-29 19:55:17|3|4/2|HAYIR|%38|%16|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%36|T•B|EVET|%42|%53|TEPE_YON|FRAGMENTARY_2|VADI>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%22|EVET|%36|3|EVET|%24|EVET|%31|3|EVET|%24|EVET|%61|4|HAYIR|%22|EVET|%43|4|HAYIR|%22|EVET|%35|
↳ 4|HAYIR|%31|EVET|%51|4|HAYIR|%17|EVET|%30|4|HAYIR|%20|EVET|%32|1|HAYIR|%22|EVET|%27|4|HAYIR|%24|EVET|%34|2|HAYIR|%24|EVET|%52|3|EVET|%15|EVET
↳ |%27|4|HAYIR|%13|EVET|%29
284 283|2026-07-29 19:55:17|3|3/4|HAYIR|%38|%16|EVET|%22|%0|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%24|%0|C•K|EVET|%43|%0|DONGU_YON|FRAGMENTARY_2|VADI>TEPE
↳ >DONGU|PATTERN_BREAK:0,59|EVET|%0|2|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|2|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVE
↳ T|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|EVET|%0|EVET|%0|2|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0
285 284|2026-07-29 19:55:21|2|4/3|EVET|%39|%17|HAYIR|%22|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%51|T•B|EVET|%42|%55|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%71|3|HAYIR|%0|EVET|%51|3|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%54|1|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%46|3|
↳ HAYIR|%0|EVET|%63|4|EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%26|3|HAYIR|%0|EVET|%39|3|HAYIR|%0|EVET|%90|3|HAYIR|%0|EVET|%27|3|HA
↳ YIR|%0|EVET|%30
286 285|2026-07-29 19:55:22|4|4/3|HAYIR|%38|%16|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%34|T•B|HAYIR|%42|%54|DONGU_YON|FRAGMENTARY_2|VAD
↳ I>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%33|1|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%41|1|HAYIR|%0|EVET|%38|1|HAYIR|%0|EVET|%42|
↳ 1|HAYIR|%0|EVET|%55|3|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%82|1|HAYIR|%0|EVET|%26|4
↳ |HAYIR|%0|EVET|%31
287 286|2026-07-29 19:55:22|2|4/3|EVET|%39|%17|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%24|%33|T•B|EVET|%43|%52|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%36|2|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%33|4|EVET|%0|EVET|%62|4|EVET|%0|EVET|%44|3|HAYIR|%0|EVE
↳ T|%45|3|HAYIR|%0|EVET|%29|4|EVET|%0|EVET|%33|3|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%28|4|EVET|%0|EVET|%31|4|EVET|%0|EVET|%54|1|HAYIR|%0|EVET|%26
↳ |2|HAYIR|%0|EVET|%30
288 287|2026-07-29 19:55:25|4|2/4|HAYIR|%39|%17|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%24|%41|T•K|EVET|%43|%52|VADI_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%0|EVET|%41|3|HAYIR|%0|EVET|%38|1|EVET|%0|EVET|%41|4|HAYIR|%0|EVET|%36|4|HAYIR|%0|EVET|%32|
↳ 4|HAYIR|%0|EVET|%37|2|HAYIR|%0|EVET|%31|4|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|4|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%39|1|EVET|%0|EVET|%26|4|
↳ HAYIR|%0|EVET|%28
289 288|2026-07-29 19:55:26|1|2/1|HAYIR|%38|%17|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%38|T•B|EVET|%43|%54|DONGU_TERS_YON|FRAGMENTARY_2
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 289 ve sonrası)

```
↳ |TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%20|EVET|%38|3|HAYIR|%0|EVET|%31|2|HAYIR|%40|EVET|%49|2|HAYIR|%40|EVET|%49|2|HAYIR|
↳ %0|EVET|%30|2|HAYIR|%0|EVET|%38|2|HAYIR|%40|EVET|%30|1|HAYIR|%0|EVET|%30|1|HAYIR|%20|EVET|%29|2|HAYIR|%40|EVET|%33|2|HAYIR|%40|EVET|%57|1|HAY
↳ IR|%20|EVET|%26|1|HAYIR|%0|EVET|%37
290 289|2026-07-29 19:55:27|4|3/2|HAYIR|%38|%17|HAYIR|%21|%37|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%39|C•K|EVET|%43|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_TERS>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%51|3|HAYIR|%16|EVET|%39|3|HAYIR|%0|EVET|%30|3|HAYIR|%33|EVET|%52|2|HAYIR|%33|EVET|%36|3|
↳ HAYIR|%0|EVET|%44|3|HAYIR|%0|EVET|%54|2|HAYIR|%33|EVET|%29|4|EVET|%0|EVET|%29|3|HAYIR|%16|EVET|%28|3|HAYIR|%33|EVET|%36|3|HAYIR|%33|EVET|%53|
↳ 1|HAYIR|%16|EVET|%26|2|HAYIR|%0|EVET|%31
291 290|2026-07-29 19:55:27|4|3/2|EVET|%39|%17|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%24|%35|T•K|EVET|%43|%52|DONGU_TERS_YON|FRAGMENTARY_2|D
↳ ALGA_TEK_SIM_3>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%47|3|EVET|%14|EVET|%35|4|HAYIR|%0|EVET|%32|2|HAYIR|%28|EVET|%70|1|HAYIR|%28|EVET|%34|
↳ 3|EVET|%0|EVET|%27|3|EVET|%0|EVET|%36|1|HAYIR|%28|EVET|%29|3|EVET|%14|EVET|%38|3|EVET|%14|EVET|%27|3|EVET|%28|EVET|%30|3|EVET|%28|EVET|%68|1|
↳ HAYIR|%14|EVET|%26|3|EVET|%0|EVET|%32
292 291|2026-07-29 19:55:30|3|2/1|HAYIR|%39|%17|EVET|%21|%27|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%28|T•B|EVET|%44|%50|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%41|3|HAYIR|%25|EVET|%28|3|HAYIR|%0|EVET|%30|4|HAYIR|%25|EVET|%43|4|HAYIR|%25|EVET|%37|2|HAYIR|
↳ %12|EVET|%41|2|HAYIR|%12|EVET|%35|4|HAYIR|%25|EVET|%30|4|HAYIR|%25|EVET|%30|1|EVET|%25|EVET|%28|4|HAYIR|%37|EVET|%29|4|HAYIR|%37|EVET|%72|3|H
↳ AYIR|%12|EVET|%27|3|HAYIR|%12|EVET|%30
293 292|2026-07-29 19:55:31|1|1/3|HAYIR|%39|%17|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|%33|T•B|HAYIR|%44|%56|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%30|2|EVET|%22|EVET|%33|3|HAYIR|%0|EVET|%30|4|HAYIR|%22|EVET|%45|3|HAYIR|%22|EVET|%46|1|HAYIR|
↳ %11|EVET|%30|2|EVET|%11|EVET|%42|4|HAYIR|%22|EVET|%33|4|HAYIR|%22|EVET|%33|1|HAYIR|%33|EVET|%28|4|HAYIR|%33|EVET|%28|2|EVET|%33|EVET|%59|3|HA
↳ YIR|%11|EVET|%27|2|EVET|%11|EVET|%31
294 293|2026-07-29 19:55:31|2|4/3|HAYIR|%39|%17|EVET|%22|%43|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%42|C•B|EVET|%44|%51|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%65|4|HAYIR|%30|EVET|%42|3|EVET|%0|EVET|%31|4|HAYIR|%20|EVET|%59|1|HAYIR|%20|EVET|%51|3|EVET|%1
↳ 0|EVET|%44|4|HAYIR|%20|EVET|%35|4|HAYIR|%20|EVET|%36|4|HAYIR|%20|EVET|%34|4|HAYIR|%30|EVET|%29|4|HAYIR|%30|EVET|%33|4|HAYIR|%40|EVET|%77|3|EV
↳ ET|%10|EVET|%27|4|HAYIR|%20|EVET|%38
295 294|2026-07-29 19:55:33|3|1/3|HAYIR|%39|%17|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%24|%36|C•B|EVET|%44|%52|VADI_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%32|2|EVET|%27|EVET|%36|3|HAYIR|%9|EVET|%31|2|EVET|%18|EVET|%47|3|HAYIR|%18|EVET|%31|2|EVET|%18|EV
↳ ET|%42|2|EVET|%18|EVET|%47|1|HAYIR|%18|EVET|%30|4|HAYIR|%18|EVET|%31|1|HAYIR|%27|EVET|%29|2|EVET|%27|EVET|%30|1|HAYIR|%36|EVET|%88|3|HAYIR|%1
↳ 8|EVET|%27|1|HAYIR|%18|EVET|%33
296 295|2026-07-29 19:55:34|2|4/3|HAYIR|%39|%17|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%43|C•K|EVET|%44|%55|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%43|3|HAYIR|%33|EVET|%43|3|HAYIR|%8|EVET|%30|2|EVET|%25|EVET|%44|4|HAYIR|%16|EVET|%37|3|HAYIR|%25|EVET|%45|
↳ 3|HAYIR|%25|EVET|%55|4|HAYIR|%16|EVET|%34|1|HAYIR|%16|EVET|%26|4|HAYIR|%25|EVET|%29|3|HAYIR|%33|EVET|%33|4|HAYIR|%33|EVET|%69|3|HAYIR|%16|EVE
↳ T|%27|4|HAYIR|%16|EVET|%31
297 296|2026-07-29 19:55:34|2|4/3|HAYIR|%39|%17|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%31|T•B|EVET|%44|%60|VADI_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%30|EVET|%31|3|EVET|%7|EVET|%29|4|HAYIR|%30|EVET|%63|4|HAYIR|%15|EVET|%36|4|HAYIR|%23|EVET
↳ |%44|4|HAYIR|%23|EVET|%43|3|EVET|%15|EVET|%30|3|EVET|%15|EVET|%40|4|HAYIR|%23|EVET|%28|4|HAYIR|%30|EVET|%37|4|HAYIR|%30|EVET|%46|3|EVET|%15|E
↳ VET|%27|3|EVET|%15|EVET|%30
298 297|2026-07-29 19:55:35|3|3/1|HAYIR|%39|%16|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%33|C•B|EVET|%45|%53|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>DONGU_TERS>VADI||HAYIR|%46|2|HAYIR|%28|EVET|%33|3|HAYIR|%14|EVET|%40|4|EVET|%28|EVET|%36|3|HAYIR|%14|EVET|%31|4|EVET|%21|EVET|%28|4|EVET
↳ |%21|EVET|%32|1|HAYIR|%21|EVET|%29|1|HAYIR|%21|EVET|%29|1|HAYIR|%21|EVET|%29|4|EVET|%28|EVET|%28|4|EVET|%28|EVET|%35|3|HAYIR|%21|EVET|%27|1|H
↳ AYIR|%21|EVET|%31
299 298|2026-07-29 19:55:36|4|3/4|HAYIR|%39|%16|EVET|%22|%42|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%44|C•B|EVET|%45|%56|VADI_YON|FRAGMENTARY_2|VADI>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%60|3|HAYIR|%26|EVET|%44|3|HAYIR|%13|EVET|%32|3|HAYIR|%33|EVET|%63|1|HAYIR|%13|EVET|%35|3|HAYIR|%26|EV
↳ ET|%45|3|HAYIR|%26|EVET|%63|2|HAYIR|%20|EVET|%30|4|EVET|%20|EVET|%32|3|HAYIR|%20|EVET|%29|3|HAYIR|%33|EVET|%41|4|EVET|%33|EVET|%86|1|HAYIR|%2
↳ 0|EVET|%26|3|HAYIR|%20|EVET|%33
300 299|2026-07-29 19:55:36|4|4/3|HAYIR|%39|%16|HAYIR|%22|%40|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%38|T•B|HAYIR|%45|%64|TEPE_YON|FRAGMENTARY_2|VADI
↳ >DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%52|4|HAYIR|%25|EVET|%38|3|HAYIR|%12|EVET|%31|4|HAYIR|%31|EVET|%61|3|HAYIR|%12|EVET|%38|4|HAYIR|%25|
↳ EVET|%45|4|HAYIR|%25|EVET|%58|3|HAYIR|%18|EVET|%33|3|HAYIR|%25|EVET|%36|3|HAYIR|%18|EVET|%28|4|HAYIR|%31|EVET|%38|4|HAYIR|%37|EVET|%76|4|HAYI
↳ R|%18|EVET|%26|3|HAYIR|%18|EVET|%37
301 300|2026-07-29 19:55:37|2|4/1|HAYIR|%39|%16|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%36|T•B|EVET|%45|%55|TEPE_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%42|4|HAYIR|%23|EVET|%36|3|HAYIR|%11|EVET|%30|4|HAYIR|%29|EVET|%61|1|EVET|%11|EVET|%38|4|HAYIR|%23|EVE
↳ T|%28|2|HAYIR|%23|EVET|%32|4|HAYIR|%17|EVET|%34|3|HAYIR|%23|EVET|%30|3|HAYIR|%17|EVET|%28|4|HAYIR|%29|EVET|%33|1|EVET|%35|EVET|%63|4|HAYIR|%1
↳ 7|EVET|%26|4|HAYIR|%17|EVET|%31
302 301|2026-07-29 19:55:38|1|1/4|HAYIR|%39|%16|EVET|%23|%45|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%69|T•B|EVET|%45|%52|TEPE_YON|FRAGMENTARY_2|VADI>D
↳ ONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%58|1|HAYIR|%22|EVET|%69|3|HAYIR|%11|EVET|%30|1|HAYIR|%27|EVET|%100|3|HAYIR|%16|EVET|%38|1|HAYIR|%22|E
↳ VET|%42|1|HAYIR|%22|EVET|%81|2|HAYIR|%16|EVET|%32|4|EVET|%22|EVET|%33|1|HAYIR|%16|EVET|%27|1|HAYIR|%27|EVET|%46|1|HAYIR|%38|EVET|%99|1|HAYIR|
↳ %16|EVET|%26|1|HAYIR|%16|EVET|%41
303 302|2026-07-29 19:55:38|4|2/4|HAYIR|%39|%16|EVET|%23|%33|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%34|C•K|EVET|%45|%55|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%21|EVET|%34|3|HAYIR|%10|EVET|%30|2|HAYIR|%26|EVET|%55|4|EVET|%15|EVET|%46|4|EVET|%21|EVET|%28|
↳ 2|HAYIR|%21|EVET|%31|2|HAYIR|%15|EVET|%30|4|EVET|%26|EVET|%36|3|HAYIR|%15|EVET|%27|2|HAYIR|%26|EVET|%29|2|HAYIR|%36|EVET|%41|4|EVET|%15|EVET|
↳ %26|4|EVET|%15|EVET|%33
304 303|2026-07-29 19:55:39|4|3/2|HAYIR|%39|%16|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%44|T•B|EVET|%46|%56|TEPE_YON|FRAGMENTARY_2|DONGU
↳ >TEPE>TEPE||HAYIR|%76|3|HAYIR|%20|EVET|%44|4|HAYIR|%10|EVET|%30|3|HAYIR|%25|EVET|%57|1|EVET|%20|EVET|%32|1|EVET|%25|EVET|%41|3|HAYIR|%20|EVET
↳ |%43|3|HAYIR|%15|EVET|%29|3|HAYIR|%30|EVET|%36|4|HAYIR|%15|EVET|%27|3|HAYIR|%25|EVET|%33|3|HAYIR|%35|EVET|%81|4|HAYIR|%20|EVET|%26|3|HAYIR|%2
↳ 0|EVET|%33
305 304|2026-07-29 19:55:42|1|3/4|EVET|%40|%16|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%36|T•K|EVET|%46|%56|TEPE_YON|FRAGMENTARY_2|DONGU_
↳ TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%35|1|HAYIR|%19|EVET|%36|3|EVET|%9|EVET|%29|1|HAYIR|%23|EVET|%42|3|EVET|%23|EVET|%36|3|EVET|%28|EVET|%
↳ 43|3|EVET|%19|EVET|%32|4|HAYIR|%14|EVET|%34|4|HAYIR|%28|EVET|%27|1|HAYIR|%14|EVET|%26|2|HAYIR|%23|EVET|%28|3|EVET|%33|EVET|%59|3|EVET|%19|EVE
↳ T|%26|1|HAYIR|%19|EVET|%32
306 305|2026-07-29 19:55:42|3|2/4|HAYIR|%40|%16|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%31|T•B|EVET|%46|%53|VADI_YON|FRAGMENTARY_2|DONGU_
↳ TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%38|2|HAYIR|%18|EVET|%31|3|HAYIR|%13|EVET|%32|2|HAYIR|%22|EVET|%100|2|HAYIR|%27|EVET|%37|2|HAYIR|%31|E
↳ VET|%42|2|HAYIR|%22|EVET|%55|4|EVET|%13|EVET|%31|4|EVET|%27|EVET|%36|1|HAYIR|%13|EVET|%28|2|HAYIR|%22|EVET|%39|2|HAYIR|%36|EVET|%85|3|HAYIR|%
↳ 22|EVET|%27|3|HAYIR|%18|EVET|%27
307 306|2026-07-29 19:55:43|4|4/3|HAYIR|%40|%16|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%35|T•B|HAYIR|%46|%53|VADI_YON|FRAGMENTARY_2|VADI
↳ >VADI>VADI|PATTERN_BREAK:0,59|EVET|%44|3|HAYIR|%17|EVET|%35|3|HAYIR|%13|EVET|%32|3|HAYIR|%21|EVET|%82|4|HAYIR|%26|EVET|%31|3|HAYIR|%30|EVET|%
↳ 34|3|HAYIR|%21|EVET|%42|2|EVET|%17|EVET|%29|4|HAYIR|%30|EVET|%42|4|HAYIR|%13|EVET|%27|3|HAYIR|%21|EVET|%33|2|EVET|%34|EVET|%58|3|HAYIR|%21|EV
↳ ET|%27|4|HAYIR|%17|EVET|%30
308 307|2026-07-29 19:55:44|2|2/4|EVET|%40|%17|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%30|C•B|EVET|%46|%52|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%16|EVET|%30|3|HAYIR|%12|EVET|%31|1|HAYIR|%20|EVET|%45|4|HAYIR|%25|EVET|%34|3|HAYIR|%29|EVET|%31
↳ |2|EVET|%20|EVET|%32|4|HAYIR|%20|EVET|%34|4|HAYIR|%29|EVET|%27|4|HAYIR|%12|EVET|%27|3|HAYIR|%20|EVET|%25|1|HAYIR|%37|EVET|%84|3|HAYIR|%20|EVE
↳ T|%26|4|HAYIR|%16|EVET|%29
309 308|2026-07-29 19:55:46|2|3/4|HAYIR|%40|%16|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%42|T•B|EVET|%46|%59|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%64|3|HAYIR|%16|EVET|%42|3|HAYIR|%12|EVET|%32|3|HAYIR|%20|EVET|%40|3|HAYIR|%24|EVET|%51|2|HAYIR|%28|EV
↳ ET|%43|3|HAYIR|%24|EVET|%39|3|HAYIR|%20|EVET|%34|3|HAYIR|%28|EVET|%38|4|HAYIR|%12|EVET|%26|3|HAYIR|%20|EVET|%36|3|HAYIR|%36|EVET|%72|3|HAYIR|
↳ %20|EVET|%26|3|HAYIR|%16|EVET|%35
310 309|2026-07-29 19:55:46|1|3/1|HAYIR|%40|%16|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%23|%38|C•B|HAYIR|%46|%54|VADI_YON|FRAGMENTARY_2|VADI>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%41|1|EVET|%15|EVET|%38|3|HAYIR|%11|EVET|%30|2|HAYIR|%19|EVET|%39|4|HAYIR|%23|EVET|%32|3|HAYIR|%26|EVET|%43|
↳ 1|EVET|%23|EVET|%33|4|HAYIR|%19|EVET|%33|1|EVET|%26|EVET|%31|1|EVET|%11|EVET|%26|3|HAYIR|%19|EVET|%29|3|HAYIR|%34|EVET|%68|3|HAYIR|%19|EVET|%
↳ 26|1|EVET|%15|EVET|%36
311 310|2026-07-29 19:55:47|1|3/1|EVET|%40|%17|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%24|%50|T•K|EVET|%46|%53|DONGU_TERS_YON|FRAGMENTARY_2|V
↳ ADI>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%68|3|EVET|%18|EVET|%50|3|EVET|%11|EVET|%30|3|EVET|%18|EVET|%35|3|EVET|%22|EVET|%46|2|HAYIR|%25|E
↳ VET|%43|3|EVET|%25|EVET|%43|3|EVET|%18|EVET|%39|3|EVET|%29|EVET|%33|1|HAYIR|%14|EVET|%28|3|EVET|%18|EVET|%36|3|EVET|%33|EVET|%86|3|EVET|%18|E
↳ VET|%26|3|EVET|%18|EVET|%38
312 311|2026-07-29 19:55:49|3|1/4|HAYIR|%40|%17|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%32|C•K|HAYIR|%46|%52|TEPE_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%35|1|HAYIR|%21|EVET|%32|3|EVET|%14|EVET|%31|1|HAYIR|%21|EVET|%47|2|HAYIR|%25|EVET|%29|1|HAYIR|%25|EVET|%3
↳ 0|1|HAYIR|%28|EVET|%36|4|HAYIR|%21|EVET|%33|4|HAYIR|%32|EVET|%27|1|HAYIR|%14|EVET|%27|1|HAYIR|%21|EVET|%30|3|EVET|%35|EVET|%37|1|HAYIR|%21|EV
↳ ET|%26|4|HAYIR|%21|EVET|%32
313 312|2026-07-29 19:55:49|3|2/3|EVET|%40|%17|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%24|%48|T•K|EVET|%46|%52|TEPE_YON|FRAGMENTARY_2|TEPE>TE
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 313 ve sonrası)

```
↳ PE>TEPE|PATTERN_BREAK:0,59|EVET|%42|2|EVET|%20|EVET|%48|3|HAYIR|%17|EVET|%31|2|EVET|%20|EVET|%65|2|EVET|%24|EVET|%41|2|EVET|%24|EVET|%34|2|EV
↳ ET|%27|EVET|%52|2|EVET|%20|EVET|%36|3|HAYIR|%31|EVET|%37|1|HAYIR|%13|EVET|%27|2|EVET|%20|EVET|%39|2|EVET|%37|EVET|%73|4|HAYIR|%20|EVET|%26|1|
↳ HAYIR|%20|EVET|%31
314 313|2026-07-29 19:55:51|2|3|HAYIR|%40|%17|HAYIR|%23|%71|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%44|T•B|HAYIR|%46|%51|DONGU_YON|FRAGMENTARY_2|DALGA
↳ _TEK_SIM_1>VADI>DONGU||HAYIR|%66|3|HAYIR|%23|EVET|%44|3|HAYIR|%16|EVET|%30|3|HAYIR|%23|EVET|%42|2|EVET|%26|EVET|%34|3|HAYIR|%26|EVET|%44|3|HA
↳ YIR|%30|EVET|%60|4|HAYIR|%23|EVET|%33|1|HAYIR|%30|EVET|%26|3|HAYIR|%13|EVET|%26|3|HAYIR|%23|EVET|%34|3|HAYIR|%40|EVET|%83|1|HAYIR|%20|EVET|%2
↳ 6|4|HAYIR|%20|EVET|%27
315 314|2026-07-29 19:55:51|2|3/4|HAYIR|%40|%17|EVET|%23|%39|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%37|C•B|EVET|%46|%53|DONGU_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>VADI>DONGU||HAYIR|%47|3|HAYIR|%22|EVET|%37|3|HAYIR|%16|EVET|%29|4|EVET|%22|EVET|%46|4|EVET|%29|EVET|%33|2|HAYIR|%25|EVET|%25|1|HAYIR|%29|
↳ EVET|%28|3|HAYIR|%22|EVET|%29|3|HAYIR|%29|EVET|%37|2|HAYIR|%12|EVET|%25|3|HAYIR|%22|EVET|%28|4|EVET|%38|EVET|%45|1|HAYIR|%19|EVET|%26|1|HAYIR
↳ |%19|EVET|%33
316 315|2026-07-29 19:56:09|4|1/2|HAYIR|%40|%17|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%38|T•K|EVET|%46|%51|DONGU_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%55|1|HAYIR|%21|EVET|%38|4|HAYIR|%15|EVET|%30|4|HAYIR|%25|EVET|%49|1|HAYIR|%31|EVET|%29|1|HAYIR|%25|E
↳ VET|%41|1|HAYIR|%28|EVET|%52|2|HAYIR|%21|EVET|%33|4|HAYIR|%28|EVET|%27|2|HAYIR|%12|EVET|%26|1|HAYIR|%21|EVET|%28|1|HAYIR|%40|EVET|%37|4|HAYIR
↳ |%18|EVET|%26|4|HAYIR|%18|EVET|%27
317 316|2026-07-29 19:56:10|3|4/2|HAYIR|%40|%17|EVET|%23|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%33|C•K|EVET|%47|%51|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%30|3|HAYIR|%21|EVET|%33|3|HAYIR|%15|EVET|%29|4|HAYIR|%24|EVET|%69|2|EVET|%30|EVET|%35|3|HAYIR|%24|EVET|%4
↳ 4|3|HAYIR|%27|EVET|%45|4|HAYIR|%21|EVET|%33|2|EVET|%27|EVET|%32|1|HAYIR|%12|EVET|%26|4|HAYIR|%21|EVET|%28|4|HAYIR|%39|EVET|%66|4|HAYIR|%18|EV
↳ ET|%26|1|HAYIR|%18|EVET|%30
318 317|2026-07-29 19:56:12|2|4/2|HAYIR|%40|%17|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%37|C•K|HAYIR|%47|%55|TEPE_YON|FRAGMENTARY_2|BLOK
↳ _TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%46|2|HAYIR|%20|EVET|%37|3|EVET|%14|EVET|%30|2|HAYIR|%23|EVET|%77|4|HAYIR|%32|EVET|%46|2|HAYIR|%23|EV
↳ ET|%44|2|HAYIR|%26|EVET|%45|4|HAYIR|%20|EVET|%33|4|HAYIR|%29|EVET|%31|4|HAYIR|%11|EVET|%27|2|HAYIR|%20|EVET|%34|3|EVET|%38|EVET|%46|3|EVET|%1
↳ 7|EVET|%27|2|HAYIR|%17|EVET|%30
319 318|2026-07-29 19:56:16|3|2/4|EVET|%40|%17|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|%41|T•B|HAYIR|%46|%54|DONGU_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%53|2|EVET|%20|EVET|%41|3|HAYIR|%17|EVET|%28|4|HAYIR|%22|EVET|%36|2|EVET|%31|EVET|%35|2|EVET|%22|EVE
↳ T|%44|2|EVET|%25|EVET|%52|4|HAYIR|%20|EVET|%31|4|HAYIR|%28|EVET|%34|2|EVET|%11|EVET|%26|2|EVET|%20|EVET|%35|2|EVET|%40|EVET|%78|3|HAYIR|%20|E
↳ VET|%27|4|HAYIR|%17|EVET|%29
320 319|2026-07-29 19:56:17|2|4/2|EVET|%41|%17|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%24|%35|C•B|EVET|%47|%61|VADI_YON|FRAGMENTARY_2|VADI>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%44|2|HAYIR|%22|EVET|%35|3|HAYIR|%16|EVET|%36|2|HAYIR|%22|EVET|%42|2|HAYIR|%33|EVET|%41|2|HAYIR|%25|EVET|%44
↳ |2|HAYIR|%27|EVET|%38|4|EVET|%19|EVET|%31|2|HAYIR|%27|EVET|%30|3|HAYIR|%13|EVET|%26|2|HAYIR|%22|EVET|%34|4|EVET|%41|EVET|%68|3|HAYIR|%19|EVET
↳ |%27|3|HAYIR|%16|EVET|%29
321 320|2026-07-29 19:56:18|4|1/2|HAYIR|%40|%17|HAYIR|%23|%46|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%24|%39|T•K|EVET|%47|%57|TEPE_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_3>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%60|3|EVET|%21|EVET|%39|3|EVET|%16|EVET|%30|3|EVET|%21|EVET|%56|1|HAYIR|%32|EVET|%36|3|EVET|%24|E
↳ VET|%44|3|EVET|%27|EVET|%43|2|HAYIR|%21|EVET|%32|2|HAYIR|%27|EVET|%37|3|EVET|%13|EVET|%27|3|EVET|%21|EVET|%31|1|HAYIR|%43|EVET|%79|3|EVET|%18
↳ |EVET|%27|3|EVET|%16|EVET|%26
322 321|2026-07-29 19:56:22|3|4|HAYIR|%40|%17|HAYIR|%23|%65|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%42|C•B|EVET|%47|%51|DONGU_YON|FRAGMENTARY_2|VADI>D
↳ ONGU>DONGU||HAYIR|%61|4|HAYIR|%23|EVET|%42|2|EVET|%18|EVET|%27|4|HAYIR|%23|EVET|%67|2|EVET|%31|EVET|%40|4|HAYIR|%26|EVET|%44|4|HAYIR|%28|EVET
↳ |%69|2|EVET|%21|EVET|%32|2|EVET|%26|EVET|%33|2|EVET|%15|EVET|%27|4|HAYIR|%23|EVET|%39|4|HAYIR|%42|EVET|%63|3|HAYIR|%21|EVET|%27|1|HAYIR|%18|E
↳ VET|%27
323 322|2026-07-29 19:56:24|2|3/4|HAYIR|%41|%17|EVET|%23|%55|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%44|C•B|EVET|%47|%52|ZIGZAK_KOM_SALINIMM|FRAGMENTA
↳ RY_2|VADI>DONGU>ZIGZAK_KOM||HAYIR|%58|3|HAYIR|%23|EVET|%44|3|HAYIR|%20|EVET|%29|3|HAYIR|%23|EVET|%55|4|EVET|%33|EVET|%42|2|HAYIR|%25|EVET|%32
↳ |3|HAYIR|%28|EVET|%42|4|EVET|%23|EVET|%34|2|HAYIR|%28|EVET|%31|4|EVET|%17|EVET|%27|3|HAYIR|%23|EVET|%32|3|HAYIR|%41|EVET|%65|3|HAYIR|%20|EVET
↳ |%27|4|EVET|%17|EVET|%29
324 323|2026-07-29 19:56:25|4|1/2|HAYIR|%41|%17|EVET|%23|%59|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%32|T•B|HAYIR|%47|%55|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >DONGU>DONGU||HAYIR|%69|3|HAYIR|%22|EVET|%32|2|EVET|%20|EVET|%29|3|HAYIR|%22|EVET|%55|1|HAYIR|%35|EVET|%37|2|EVET|%25|EVET|%28|1|HAYIR|%27|EV
↳ ET|%42|3|HAYIR|%25|EVET|%31|2|EVET|%27|EVET|%33|3|HAYIR|%20|EVET|%29|2|EVET|%22|EVET|%29|1|HAYIR|%40|EVET|%71|3|HAYIR|%20|EVET|%27|3|HAYIR|%2
↳ 0|EVET|%31
325 324|2026-07-29 19:56:26|2|4/3|HAYIR|%41|%17|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%40|T•B|EVET|%47|%64|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%36|4|HAYIR|%21|EVET|%40|3|HAYIR|%21|EVET|%27|4|HAYIR|%21|EVET|%81|3|HAYIR|%34|EVET|%33|4|HAYIR|%26|EVET
↳ |%32|4|HAYIR|%26|EVET|%46|4|HAYIR|%24|EVET|%36|2|HAYIR|%29|EVET|%32|4|HAYIR|%19|EVET|%29|4|HAYIR|%24|EVET|%37|4|HAYIR|%39|EVET|%61|4|HAYIR|%1
↳ 9|EVET|%26|2|HAYIR|%19|EVET|%30
326 325|2026-07-29 19:56:27|1|1/4|HAYIR|%40|%17|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%23|%56|C•B|EVET|%47|%55|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_TERS>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%44|1|HAYIR|%21|EVET|%56|4|HAYIR|%21|EVET|%26|1|HAYIR|%21|EVET|%58|4|HAYIR|%33|EVET|%48|1|
↳ HAYIR|%26|EVET|%35|1|HAYIR|%26|EVET|%68|4|HAYIR|%23|EVET|%31|4|HAYIR|%28|EVET|%34|3|EVET|%19|EVET|%27|1|HAYIR|%23|EVET|%33|1|HAYIR|%38|EVET|%
↳ 99|4|HAYIR|%19|EVET|%25|1|HAYIR|%19|EVET|%41
327 326|2026-07-29 19:56:30|3|3/4|HAYIR|%40|%17|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%23|%36|C•B|EVET|%48|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_TERS>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%33|3|HAYIR|%20|EVET|%36|3|HAYIR|%20|EVET|%29|1|HAYIR|%20|EVET|%48|4|HAYIR|%32|EVET|%35|2
↳ |EVET|%25|EVET|%32|3|HAYIR|%25|EVET|%33|2|EVET|%23|EVET|%34|4|HAYIR|%27|EVET|%29|2|EVET|%20|EVET|%29|2|EVET|%23|EVET|%28|3|HAYIR|%37|EVET|%63
↳ |4|HAYIR|%18|EVET|%26|3|HAYIR|%18|EVET|%29
328 327|2026-07-29 19:56:30|2|3/4|HAYIR|%40|%17|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%23|%36|C•K|EVET|%48|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%41|3|HAYIR|%20|EVET|%36|2|EVET|%20|EVET|%28|1|HAYIR|%20|EVET|%63|4|HAYIR|%31|EVET|%44|1|HAYIR|
↳ %27|EVET|%40|3|HAYIR|%25|EVET|%35|4|HAYIR|%25|EVET|%34|4|HAYIR|%27|EVET|%26|4|HAYIR|%22|EVET|%28|1|HAYIR|%25|EVET|%27|3|HAYIR|%36|EVET|%92|4|
↳ HAYIR|%18|EVET|%25|4|HAYIR|%18|EVET|%33
329 328|2026-07-29 19:56:31|2|4/2|HAYIR|%40|%17|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%30|C•B|HAYIR|%48|%62|DONGU_YON|FRAGMENTARY_2|BLO
↳ K_DUZ>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%60|3|HAYIR|%20|EVET|%30|3|HAYIR|%22|EVET|%28|4|HAYIR|%20|EVET|%52|4|HAYIR|%31|EVET|%39|4|HAYIR|%26|
↳ EVET|%28|4|HAYIR|%24|EVET|%32|4|HAYIR|%24|EVET|%28|3|HAYIR|%26|EVET|%40|4|HAYIR|%22|EVET|%28|4|HAYIR|%24|EVET|%31|4|HAYIR|%35|EVET|%57|4|HAYI
↳ R|%17|EVET|%25|1|EVET|%17|EVET|%30
330 329|2026-07-29 19:56:32|1|3/1|HAYIR|%40|%17|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%39|C•B|EVET|%48|%51|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%28|1|HAYIR|%19|EVET|%39|2|EVET|%21|EVET|%31|2|EVET|%19|EVET|%35|4|HAYIR|%30|EVET|%31|2|EVET|%26|EVET|%46|
↳ 2|EVET|%23|EVET|%45|2|EVET|%23|EVET|%30|1|HAYIR|%26|EVET|%27|3|HAYIR|%21|EVET|%28|2|EVET|%23|EVET|%31|3|HAYIR|%34|EVET|%49|1|HAYIR|%17|EVET|%
↳ 25|1|HAYIR|%19|EVET|%37
331 330|2026-07-29 19:56:33|2|2/3|HAYIR|%40|%17|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%42|C•B|EVET|%48|%57|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>ZIGZAK_KOM>VADI|PATTERN_BREAK:0,59|EVET|%26|2|HAYIR|%19|EVET|%42|3|HAYIR|%23|EVET|%39|3|HAYIR|%21|EVET|%35|1|HAYIR|%29|EVET|%43|2|HAYIR|
↳ %27|EVET|%46|2|HAYIR|%25|EVET|%60|4|EVET|%25|EVET|%33|2|HAYIR|%25|EVET|%32|4|EVET|%21|EVET|%27|2|HAYIR|%25|EVET|%32|3|HAYIR|%34|EVET|%39|3|HA
↳ YIR|%17|EVET|%26|4|EVET|%19|EVET|%34
332 331|2026-07-29 19:56:34|4|2/1|HAYIR|%40|%17|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%29|T•B|EVET|%48|%53|VADI_YON|FRAGMENTARY_2|VADI>D
↳ ONGU>VADI|PATTERN_BREAK:0,59|EVET|%27|3|HAYIR|%18|EVET|%29|2|HAYIR|%22|EVET|%32|4|HAYIR|%20|EVET|%57|1|EVET|%29|EVET|%39|4|HAYIR|%27|EVET|%26
↳ |1|EVET|%25|EVET|%28|2|HAYIR|%27|EVET|%34|2|HAYIR|%25|EVET|%40|3|HAYIR|%22|EVET|%28|4|HAYIR|%25|EVET|%26|1|EVET|%33|EVET|%68|3|HAYIR|%16|EVET
↳ |%26|3|HAYIR|%20|EVET|%29
333 332|2026-07-29 19:56:35|1|2/4|HAYIR|%40|%16|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%23|%33|C•K|EVET|%48|%54|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%31|4|HAYIR|%18|EVET|%33|3|HAYIR|%22|EVET|%27|4|HAYIR|%20|EVET|%51|2|HAYIR|%30|EVET|%36|4|HAYI
↳ R|%26|EVET|%31|1|EVET|%26|EVET|%35|2|HAYIR|%26|EVET|%32|2|HAYIR|%24|EVET|%33|3|HAYIR|%22|EVET|%28|4|HAYIR|%24|EVET|%28|2|HAYIR|%34|EVET|%56|3
↳ |HAYIR|%16|EVET|%26|1|EVET|%20|EVET|%29
334 333|2026-07-29 19:56:36|1|3/1|HAYIR|%40|%16|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%58|T•B|HAYIR|%48|%58|VADI_YON|FRAGMENTARY_2|TEPE
↳ >DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%54|3|HAYIR|%18|EVET|%58|2|EVET|%22|EVET|%30|3|HAYIR|%20|EVET|%62|3|HAYIR|%30|EVET|%45|3|HAYIR|%26|E
↳ VET|%43|3|HAYIR|%28|EVET|%72|3|HAYIR|%26|EVET|%42|3|HAYIR|%24|EVET|%33|1|HAYIR|%22|EVET|%27|3|HAYIR|%24|EVET|%46|3|HAYIR|%34|EVET|%85|3|HAYIR
↳ |%16|EVET|%26|3|HAYIR|%22|EVET|%43
335 334|2026-07-29 19:56:39|2|3/4|EVET|%40|%17|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%38|C•B|EVET|%48|%51|VADI_YON|FRAGMENTARY_2|VADI>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%49|4|HAYIR|%17|EVET|%38|3|EVET|%23|EVET|%27|3|EVET|%19|EVET|%51|3|EVET|%29|EVET|%40|2|HAYIR|%25|EVET|
↳ %30|4|HAYIR|%27|EVET|%29|4|HAYIR|%25|EVET|%35|4|HAYIR|%23|EVET|%27|4|HAYIR|%21|EVET|%28|3|EVET|%23|EVET|%29|1|HAYIR|%33|EVET|%44|3|EVET|%15|E
↳ VET|%26|4|HAYIR|%21|EVET|%39
336 335|2026-07-29 19:56:39|3|2/1|HAYIR|%40|%17|EVET|%23|%36|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%42|C•K|EVET|%48|%60|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%60|2|HAYIR|%17|EVET|%42|2|HAYIR|%25|EVET|%32|2|HAYIR|%21|EVET|%44|3|HAYIR|%30|EVET|%32|1
↳ |EVET|%25|EVET|%41|1|EVET|%26|EVET|%50|2|HAYIR|%25|EVET|%36|2|HAYIR|%23|EVET|%43|2|HAYIR|%21|EVET|%30|2|HAYIR|%25|EVET|%33|1|EVET|%32|EVET|%7
↳ 8|3|HAYIR|%17|EVET|%26|2|HAYIR|%21|EVET|%35
337 336|2026-07-29 19:56:41|1|2/3|EVET|%40|%17|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%23|%48|C•K|EVET|%49|%54|DONGU_TERS_YON|FRAGMENTARY_2|D
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 337 ve sonrası)

```
↳ ONGU>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|2|EVET|%16|EVET|%48|3|HAYIR|%24|EVET|%27|2|EVET|%20|EVET|%40|3|HAYIR|%30|EVET|%32|2|EVET|%2
↳ 6|EVET|%46|2|EVET|%28|EVET|%56|2|EVET|%24|EVET|%32|2|EVET|%22|EVET|%31|2|EVET|%20|EVET|%27|2|EVET|%24|EVET|%37|2|EVET|%33|EVET|%58|3|HAYIR|%1
↳ 6|EVET|%26|2|EVET|%20|EVET|%36
338 337|2026-07-29 19:56:44|2|4/2|EVET|%40|%17|HAYIR|%23|%52|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|%43|C•B|EVET|%49|%58|TEPE_YON|FRAGMENTARY_2|DONGU>T
↳ EPE>TEPE||HAYIR|%72|4|EVET|%18|EVET|%43|2|HAYIR|%24|EVET|%31|4|EVET|%22|EVET|%57|2|HAYIR|%29|EVET|%48|2|HAYIR|%27|EVET|%46|4|EVET|%29|EVET|%3
↳ 9|4|EVET|%25|EVET|%33|2|HAYIR|%24|EVET|%30|4|EVET|%22|EVET|%28|2|HAYIR|%25|EVET|%31|4|EVET|%35|EVET|%74|1|HAYIR|%16|EVET|%26|4|EVET|%22|EVET|
↳ %36
339 338|2026-07-29 19:56:44|4|4/3|HAYIR|%41|%17|EVET|%23|%31|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%23|%33|C•B|EVET|%49|%54|VADI_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%39|4|HAYIR|%20|EVET|%33|3|EVET|%23|EVET|%28|4|HAYIR|%23|EVET|%61|2|HAYIR|%29|EVET|%41|4|HAYIR|%27|EVET|%43|
↳ 4|HAYIR|%30|EVET|%55|2|HAYIR|%27|EVET|%32|2|HAYIR|%23|EVET|%39|3|EVET|%23|EVET|%27|4|HAYIR|%25|EVET|%34|1|HAYIR|%36|EVET|%76|1|HAYIR|%16|EVET
↳ |%25|3|EVET|%23|EVET|%27
340 339|2026-07-29 19:56:46|3|2/1|HAYIR|%41|%17|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%36|C•K|HAYIR|%49|%55|TEPE_YON|FRAGMENTARY_2|VADI
↳ >VADI>TEPE|PATTERN_BREAK:0,59|EVET|%69|2|HAYIR|%19|EVET|%36|2|HAYIR|%25|EVET|%31|2|HAYIR|%23|EVET|%43|2|HAYIR|%28|EVET|%35|1|HAYIR|%26|EVET|%
↳ 41|2|HAYIR|%30|EVET|%33|2|HAYIR|%26|EVET|%35|2|HAYIR|%23|EVET|%37|2|HAYIR|%25|EVET|%30|2|HAYIR|%25|EVET|%33|4|HAYIR|%35|EVET|%58|1|HAYIR|%16|
↳ EVET|%26|2|HAYIR|%25|EVET|%32
341 340|2026-07-29 19:56:47|3|2/1|EVET|%41|%17|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%29|C•B|EVET|%49|%53|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%19|EVET|%29|3|HAYIR|%24|EVET|%29|1|HAYIR|%22|EVET|%39|2|EVET|%28|EVET|%51|4|HAYIR|%26|EV
↳ ET|%43|4|HAYIR|%29|EVET|%37|2|EVET|%26|EVET|%43|3|HAYIR|%22|EVET|%34|2|EVET|%24|EVET|%29|2|EVET|%24|EVET|%29|3|HAYIR|%35|EVET|%79|1|HAYIR|%15
↳ |EVET|%25|2|EVET|%24|EVET|%30
342 341|2026-07-29 19:56:48|2|4/2|EVET|%41|%18|HAYIR|%23|%54|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|%33|C•K|EVET|%49|%54|TEPE_YON|FRAGMENTARY_2|TEPE>VA
↳ DI>TEPE||HAYIR|%81|4|EVET|%18|EVET|%33|2|HAYIR|%24|EVET|%31|3|HAYIR|%22|EVET|%57|2|HAYIR|%29|EVET|%34|4|EVET|%25|EVET|%42|4|EVET|%29|EVET|%40
↳ |4|EVET|%27|EVET|%35|3|HAYIR|%22|EVET|%29|4|EVET|%25|EVET|%29|4|EVET|%25|EVET|%30|3|HAYIR|%34|EVET|%83|1|HAYIR|%15|EVET|%25|4|EVET|%25|EVET|%
↳ 32
343 342|2026-07-29 19:56:49|4|3/1|HAYIR|%41|%18|EVET|%23|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%31|C•K|EVET|%49|%51|VADI_YON|FRAGMENTARY_2|VADI>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%65|2|HAYIR|%20|EVET|%31|3|HAYIR|%23|EVET|%31|2|HAYIR|%22|EVET|%42|1|EVET|%28|EVET|%41|1|EVET|%27|EVET|%40|1
↳ |EVET|%30|EVET|%45|3|HAYIR|%28|EVET|%31|2|HAYIR|%22|EVET|%31|3|HAYIR|%27|EVET|%29|2|HAYIR|%27|EVET|%30|1|EVET|%33|EVET|%68|1|EVET|%15|EVET|%2
↳ 5|3|HAYIR|%27|EVET|%31
344 343|2026-07-29 19:56:50|1|2/1|HAYIR|%41|%18|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%37|C•B|EVET|%50|%51|TEPE_YON|FRAGMENTARY_2|DONGU
↳ >DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%43|1|HAYIR|%20|EVET|%37|2|HAYIR|%23|EVET|%29|2|HAYIR|%21|EVET|%41|2|HAYIR|%30|EVET|%34|2|HAYIR|%28|
↳ EVET|%46|2|HAYIR|%31|EVET|%52|2|HAYIR|%28|EVET|%34|1|HAYIR|%21|EVET|%30|2|HAYIR|%26|EVET|%28|2|HAYIR|%26|EVET|%36|1|HAYIR|%35|EVET|%50|3|EVET
↳ |%16|EVET|%26|1|HAYIR|%26|EVET|%35
345 344|2026-07-29 19:56:51|3|2/3|HAYIR|%41|%17|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|%36|C•K|EVET|%50|%56|TEPE_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%43|4|EVET|%19|EVET|%36|3|HAYIR|%22|EVET|%28|4|EVET|%21|EVET|%91|2|HAYIR|%29|EVET|%42|2|HAYIR|%27|EVET
↳ |%33|4|EVET|%31|EVET|%40|2|HAYIR|%27|EVET|%34|2|HAYIR|%21|EVET|%31|2|HAYIR|%26|EVET|%30|4|EVET|%26|EVET|%33|2|HAYIR|%34|EVET|%78|3|HAYIR|%18|
↳ EVET|%26|3|HAYIR|%26|EVET|%27
346 345|2026-07-29 19:56:54|4|2/3|HAYIR|%41|%17|EVET|%23|%48|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%53|C•K|HAYIR|%50|%58|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%68|2|HAYIR|%20|EVET|%53|4|HAYIR|%22|EVET|%27|2|HAYIR|%22|EVET|%74|2|HAYIR|%29|EVET|%30|2|HAYIR|%27|EV
↳ ET|%45|2|HAYIR|%32|EVET|%69|3|EVET|%27|EVET|%30|2|HAYIR|%20|EVET|%26|3|EVET|%25|EVET|%28|2|HAYIR|%27|EVET|%43|2|HAYIR|%33|EVET|%72|3|EVET|%17
↳ |EVET|%26|2|HAYIR|%25|EVET|%31
347 346|2026-07-29 19:56:54|3|3/1|EVET|%41|%18|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%23|%29|C•K|HAYIR|%49|%53|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%42|3|EVET|%20|EVET|%29|3|EVET|%22|EVET|%29|1|HAYIR|%22|EVET|%46|4|HAYIR|%28|EVET|%41|2|HAYIR|%2
↳ 6|EVET|%28|1|HAYIR|%31|EVET|%26|2|HAYIR|%28|EVET|%33|2|HAYIR|%20|EVET|%32|2|HAYIR|%26|EVET|%30|2|HAYIR|%26|EVET|%26|3|EVET|%33|EVET|%65|3|EVE
↳ T|%19|EVET|%27|2|HAYIR|%25|EVET|%30
348 347|2026-07-29 19:56:55|3|2/1|HAYIR|%41|%18|EVET|%23|%54|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%38|C•K|EVET|%50|%59|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>TEPE>DONGU_TERS||HAYIR|%78|2|HAYIR|%21|EVET|%38|2|HAYIR|%23|EVET|%27|1|EVET|%21|EVET|%44|2|HAYIR|%28|EVET|%56|2|HAYIR|%26|EVET|%32|2|HAY
↳ IR|%31|EVET|%37|2|HAYIR|%28|EVET|%45|3|HAYIR|%20|EVET|%37|2|HAYIR|%26|EVET|%29|2|HAYIR|%26|EVET|%34|3|HAYIR|%34|EVET|%73|3|HAYIR|%20|EVET|%27
↳ |2|HAYIR|%25|EVET|%35
349 348|2026-07-29 19:56:57|1|3/2|HAYIR|%41|%18|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%44|T•B|EVET|%50|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|3|HAYIR|%21|EVET|%44|3|HAYIR|%23|EVET|%30|3|HAYIR|%23|EVET|%71|2|HAYIR|%27|EVET|%42|3|HAYIR
↳ |%26|EVET|%45|3|HAYIR|%30|EVET|%67|2|HAYIR|%27|EVET|%32|3|HAYIR|%20|EVET|%33|3|HAYIR|%26|EVET|%28|3|HAYIR|%26|EVET|%42|2|HAYIR|%33|EVET|%98|3
↳ |HAYIR|%20|EVET|%27|2|HAYIR|%24|EVET|%40
350 349|2026-07-29 19:56:58|4|4/1|HAYIR|%41|%18|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%41|C•B|EVET|%50|%51|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%52|4|HAYIR|%21|EVET|%41|2|HAYIR|%22|EVET|%27|4|HAYIR|%22|EVET|%52|4|HAYIR|%27|EVET|%43|4|HAYIR|%25|EVET|%3
↳ 1|4|HAYIR|%30|EVET|%43|3|EVET|%27|EVET|%32|4|HAYIR|%19|EVET|%29|3|EVET|%25|EVET|%30|4|HAYIR|%25|EVET|%34|4|HAYIR|%33|EVET|%61|3|EVET|%19|EVET
↳ |%27|4|HAYIR|%24|EVET|%36
351 350|2026-07-29 19:56:58|3|2/3|EVET|%41|%18|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%23|%34|T•K|EVET|%50|%54|TEPE_YON|FRAGMENTARY_2|VADI>VA
↳ DI>TEPE|PATTERN_BREAK:0,59|EVET|%42|2|EVET|%20|EVET|%34|3|HAYIR|%22|EVET|%31|2|EVET|%22|EVET|%66|3|HAYIR|%26|EVET|%33|2|EVET|%25|EVET|%44|2|E
↳ VET|%29|EVET|%49|2|EVET|%28|EVET|%32|3|HAYIR|%19|EVET|%30|2|EVET|%26|EVET|%28|2|EVET|%25|EVET|%37|3|HAYIR|%32|EVET|%71|4|HAYIR|%20|EVET|%25|3
↳ |HAYIR|%23|EVET|%32
352 351|2026-07-29 19:57:00|2|2/4|EVET|%42|%18|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|%34|C•B|EVET|%50|%62|DONGU_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%39|2|EVET|%22|EVET|%34|3|HAYIR|%22|EVET|%27|2|EVET|%23|EVET|%56|4|HAYIR|%26|EVET|%37|2|EVET|%26|EVET|%
↳ 45|2|EVET|%30|EVET|%60|4|HAYIR|%29|EVET|%36|4|HAYIR|%19|EVET|%27|4|HAYIR|%27|EVET|%30|2|EVET|%26|EVET|%34|3|HAYIR|%32|EVET|%64|4|HAYIR|%20|EV
↳ ET|%25|4|HAYIR|%23|EVET|%35
353 352|2026-07-29 19:57:01|2|1/4|HAYIR|%42|%18|EVET|%23|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%50|T•B|EVET|%50|%58|BLOK_TERS_TEKRAR|FRAGMENTARY_
↳ 2|TEPE>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%47|1|HAYIR|%23|EVET|%50|3|HAYIR|%21|EVET|%29|4|EVET|%24|EVET|%40|4|EVET|%26|
↳ EVET|%40|1|HAYIR|%27|EVET|%40|1|HAYIR|%31|EVET|%64|1|HAYIR|%28|EVET|%29|3|HAYIR|%18|EVET|%38|4|EVET|%27|EVET|%30|1|HAYIR|%27|EVET|%35|4|EVET|
↳ %31|EVET|%53|4|EVET|%20|EVET|%25|1|HAYIR|%23|EVET|%34
354 353|2026-07-29 19:57:04|4|3/2|HAYIR|%42|%18|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%41|T•B|EVET|%50|%63|VADI_YON|FRAGMENTARY_2|DONGU
↳ _TERS>VADI>VADI|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%22|EVET|%41|2|HAYIR|%21|EVET|%27|2|HAYIR|%25|EVET|%33|3|HAYIR|%27|EVET
↳ |%31|3|HAYIR|%27|EVET|%32|3|HAYIR|%31|EVET|%44|3|HAYIR|%28|EVET|%34|3|HAYIR|%18|EVET|%33|3|HAYIR|%28|EVET|%31|3|HAYIR|%27|EVET|%34|3|HAYIR|%3
↳ 2|EVET|%43|4|HAYIR|%21|EVET|%25|3|HAYIR|%22|EVET|%31
355 354|2026-07-29 19:57:04|1|3/2|HAYIR|%41|%18|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%30|C•K|EVET|%51|%57|VADI_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>VADI||HAYIR|%50|1|HAYIR|%22|EVET|%30|3|HAYIR|%21|EVET|%29|2|HAYIR|%25|EVET|%29|3|HAYIR|%26|EVET|%42|2|HAYIR|%26|EVET|%45|2|HAYIR|%
↳ 30|EVET|%49|2|HAYIR|%28|EVET|%31|2|HAYIR|%18|EVET|%32|3|HAYIR|%28|EVET|%27|2|HAYIR|%26|EVET|%32|1|HAYIR|%32|EVET|%49|4|EVET|%21|EVET|%25|1|HA
↳ YIR|%22|EVET|%31
356 355|2026-07-29 19:57:05|4|4/3|HAYIR|%41|%18|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%39|C•B|EVET|%51|%61|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%41|4|HAYIR|%22|EVET|%39|2|EVET|%20|EVET|%28|4|HAYIR|%25|EVET|%63|3|HAYIR|%26|EVET|%33|3|HAYIR|%26|EV
↳ ET|%32|3|HAYIR|%30|EVET|%39|3|HAYIR|%27|EVET|%33|2|EVET|%18|EVET|%28|3|HAYIR|%27|EVET|%31|4|HAYIR|%26|EVET|%32|3|HAYIR|%31|EVET|%51|4|HAYIR|%
↳ 22|EVET|%25|3|HAYIR|%22|EVET|%33
357 356|2026-07-29 19:57:10|2|3/2|HAYIR|%41|%18|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%33|T•B|EVET|%51|%63|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|TEPE>DONGU_TERS>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%34|2|HAYIR|%21|EVET|%33|4|HAYIR|%21|EVET|%28|3|HAYIR|%24|EVET|%47|1|E
↳ VET|%26|EVET|%34|3|HAYIR|%26|EVET|%44|3|HAYIR|%30|EVET|%46|4|HAYIR|%27|EVET|%36|3|HAYIR|%19|EVET|%28|4|HAYIR|%27|EVET|%31|3|HAYIR|%26|EVET|%3
↳ 3|1|EVET|%31|EVET|%40|3|HAYIR|%21|EVET|%26|2|HAYIR|%21|EVET|%28
358 357|2026-07-29 19:57:11|1|1/4|HAYIR|%41|%18|HAYIR|%23|%44|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%23|%51|T•B|EVET|%51|%63|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|BLOK_TERS>VADI>BLOK_TERS||HAYIR|%60|1|HAYIR|%21|EVET|%51|3|EVET|%21|EVET|%27|1|HAYIR|%24|EVET|%49|4|HAYIR|%27|EVET|%34|1|HAYIR|%25|EVET|%4
↳ 1|1|HAYIR|%29|EVET|%67|2|HAYIR|%27|EVET|%30|4|HAYIR|%18|EVET|%30|2|HAYIR|%27|EVET|%26|1|HAYIR|%25|EVET|%35|1|HAYIR|%32|EVET|%99|3|EVET|%21|EV
↳ ET|%26|1|HAYIR|%21|EVET|%33
359 358|2026-07-29 19:57:12|3|2/3|HAYIR|%41|%18|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%23|%44|C•B|EVET|%51|%53|TEPE_YON|FRAGMENTARY_2|VADI>
↳ TEPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%44|2|HAYIR|%21|EVET|%44|3|HAYIR|%22|EVET|%28|2|HAYIR|%24|EVET|%53|4|EVET|%26|EVET|%38|2|
↳ HAYIR|%25|EVET|%45|2|HAYIR|%29|EVET|%69|2|HAYIR|%26|EVET|%34|2|HAYIR|%18|EVET|%29|2|HAYIR|%26|EVET|%30|2|HAYIR|%25|EVET|%40|2|HAYIR|%32|EVET|
↳ %52|3|HAYIR|%22|EVET|%27|4|EVET|%21|EVET|%30
360 359|2026-07-29 19:57:15|4|3/2|HAYIR|%41|%18|HAYIR|%23|%62|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%39|C•B|HAYIR|%51|%51|TEPE_YON|FRAGMENTARY_2|TEPE
↳ >DONGU>TEPE||HAYIR|%79|3|HAYIR|%21|EVET|%39|2|HAYIR|%22|EVET|%31|3|HAYIR|%23|EVET|%65|3|HAYIR|%27|EVET|%35|3|HAYIR|%25|EVET|%33|3|HAYIR|%28|E
↳ VET|%45|3|HAYIR|%26|EVET|%32|2|HAYIR|%18|EVET|%31|3|HAYIR|%26|EVET|%30|3|HAYIR|%25|EVET|%37|2|HAYIR|%31|EVET|%64|3|HAYIR|%22|EVET|%27|3|HAYIR
↳ |%22|EVET|%34
361 360|2026-07-29 19:57:16|1|4/3|HAYIR|%41|%18|EVET|%23|%28|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%23|%32|C•B|EVET|%51|%50|VADI_YON|FRAGMENTARY_2|DONGU_
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 361 ve sonrası)

```
↳ TERS>BLOK_TERS>VADI|PATTERN_BREAK:0,59|EVET|%32|4|HAYIR|%20|EVET|%32|4|HAYIR|%22|EVET|%33|4|HAYIR|%23|EVET|%81|2|HAYIR|%27|EVET|%46|4|HAYIR|%
↳ 24|EVET|%31|1|HAYIR|%28|EVET|%40|4|HAYIR|%25|EVET|%29|2|HAYIR|%18|EVET|%28|3|EVET|%25|EVET|%28|4|HAYIR|%24|EVET|%33|1|HAYIR|%31|EVET|%49|3|EV
↳ ET|%22|EVET|%26|1|HAYIR|%22|EVET|%28
362 361|2026-07-29 19:57:17|3|4/2|HAYIR|%41|%17|EVET|%23|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%49|C•B|EVET|%51|%53|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%20|EVET|%49|2|EVET|%21|EVET|%28|4|HAYIR|%23|EVET|%95|2|EVET|%26|EVET|%44|4|HAYIR|%2
↳ 4|EVET|%35|4|HAYIR|%28|EVET|%52|2|EVET|%25|EVET|%33|2|EVET|%17|EVET|%28|2|EVET|%26|EVET|%29|4|HAYIR|%24|EVET|%38|2|EVET|%30|EVET|%64|3|HAYIR|
↳ %23|EVET|%27|4|HAYIR|%21|EVET|%35
363 362|2026-07-29 19:57:31|2|4/3|HAYIR|%41|%17|EVET|%23|%25|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%23|%30|C•B|EVET|%52|%60|VADI_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%34|2|HAYIR|%20|EVET|%30|3|EVET|%22|EVET|%28|2|HAYIR|%22|EVET|%38|2|HAYIR|%27|EVET|%49|1|HAYIR|%24|EVET|%41|
↳ 3|EVET|%27|EVET|%32|4|HAYIR|%26|EVET|%35|3|EVET|%18|EVET|%29|4|HAYIR|%27|EVET|%30|2|HAYIR|%24|EVET|%27|3|EVET|%31|EVET|%91|3|EVET|%22|EVET|%2
↳ 6|4|HAYIR|%21|EVET|%34
364 363|2026-07-29 19:57:32|3|2/1|HAYIR|%41|%17|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%44|C•B|EVET|%52|%51|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%52|2|HAYIR|%20|EVET|%44|2|HAYIR|%23|EVET|%29|2|HAYIR|%22|EVET|%31|2|HAYIR|%27|EVET|%44|2|HAYIR|%23|EVET|%3
↳ 2|2|HAYIR|%28|EVET|%45|2|HAYIR|%26|EVET|%34|2|HAYIR|%20|EVET|%32|2|HAYIR|%27|EVET|%30|2|HAYIR|%23|EVET|%35|2|HAYIR|%32|EVET|%82|4|EVET|%23|EV
↳ ET|%25|2|HAYIR|%21|EVET|%33
365 364|2026-07-29 19:57:33|4|4/1|HAYIR|%41|%17|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%37|C•K|HAYIR|%52|%60|DONGU_TERS_YON|FRAGMENTARY_
↳ 2|BLOK_TERS>BLOK_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%19|EVET|%37|3|EVET|%23|EVET|%30|4|HAYIR|%22|EVET|%36|2|HAYIR|%27|EVET|%
↳ 45|4|HAYIR|%23|EVET|%35|4|HAYIR|%28|EVET|%44|3|EVET|%25|EVET|%31|3|EVET|%19|EVET|%28|3|EVET|%27|EVET|%29|4|HAYIR|%23|EVET|%27|4|HAYIR|%32|EVE
↳ T|%90|4|HAYIR|%24|EVET|%25|3|EVET|%20|EVET|%31
366 365|2026-07-29 19:57:36|3|2/1|HAYIR|%41|%17|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%44|C•B|EVET|%52|%51|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>BLOK_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%35|3|HAYIR|%19|EVET|%44|2|HAYIR|%24|EVET|%29|3|HAYIR|%21|EVET|%59|3|HAYIR|%26|EVET|%43|3|
↳ HAYIR|%23|EVET|%45|3|HAYIR|%28|EVET|%60|2|HAYIR|%26|EVET|%33|3|HAYIR|%20|EVET|%27|2|HAYIR|%28|EVET|%30|3|HAYIR|%23|EVET|%34|3|HAYIR|%31|EVET|
↳ %77|4|EVET|%24|EVET|%25|2|HAYIR|%21|EVET|%32
367 366|2026-07-29 19:57:37|4|4/1|HAYIR|%41|%17|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%23|%38|C•K|EVET|%52|%61|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%41|2|EVET|%19|EVET|%38|3|HAYIR|%24|EVET|%29|1|HAYIR|%21|EVET|%38|2|EVET|%26|EVET|%38|2|EVET|%22|EVET|%44|2|
↳ EVET|%27|EVET|%48|3|HAYIR|%26|EVET|%33|4|HAYIR|%20|EVET|%32|3|HAYIR|%27|EVET|%31|2|EVET|%22|EVET|%30|2|EVET|%31|EVET|%93|4|HAYIR|%25|EVET|%26
↳ |3|HAYIR|%21|EVET|%36
368 367|2026-07-29 19:57:39|2|1/4|HAYIR|%41|%17|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%38|T•B|EVET|%52|%61|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%43|1|HAYIR|%20|EVET|%38|2|HAYIR|%23|EVET|%28|1|HAYIR|%21|EVET|%43|1|HAYIR|%27|EVET|%31|3|EVET|
↳ %23|EVET|%45|1|HAYIR|%28|EVET|%34|4|HAYIR|%26|EVET|%34|3|EVET|%20|EVET|%27|4|HAYIR|%27|EVET|%30|3|EVET|%23|EVET|%29|1|HAYIR|%32|EVET|%80|4|HA
↳ YIR|%25|EVET|%25|1|HAYIR|%21|EVET|%31
369 368|2026-07-29 19:57:45|3|4/2|HAYIR|%41|%17|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%23|%36|C•B|HAYIR|%52|%52|ZIGZAK_KOM_SALINIMM|FRAGMENT
↳ ARY_2|BLOK_TERS>VADI>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%34|1|EVET|%20|EVET|%36|3|HAYIR|%23|EVET|%35|1|EVET|%21|EVET|%72|2|HAYIR|%27|EVET|%36
↳ |1|EVET|%24|EVET|%40|1|EVET|%28|EVET|%51|2|HAYIR|%25|EVET|%32|4|HAYIR|%21|EVET|%31|2|HAYIR|%27|EVET|%29|1|EVET|%24|EVET|%30|1|EVET|%31|EVET|%
↳ 89|4|HAYIR|%24|EVET|%25|4|HAYIR|%21|EVET|%30
370 369|2026-07-29 19:57:46|1|1/3|HAYIR|%41|%17|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%23|%40|C•B|EVET|%52|%60|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%20|EVET|%40|2|HAYIR|%23|EVET|%28|2|HAYIR|%22|EVET|%42|3|EVET|%26|EVET|%34|1|H
↳ AYIR|%25|EVET|%41|1|HAYIR|%29|EVET|%44|3|EVET|%25|EVET|%31|3|EVET|%20|EVET|%29|3|EVET|%26|EVET|%29|2|HAYIR|%25|EVET|%28|2|HAYIR|%32|EVET|%67|
↳ 3|EVET|%24|EVET|%27|2|HAYIR|%20|EVET|%36
371 370|2026-07-29 19:57:47|3|4/2|EVET|%41|%17|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|%36|T•B|EVET|%52|%55|DONGU_TERS_YON|FRAGMENTARY_2|T
↳ EPE>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%46|4|EVET|%20|EVET|%36|3|HAYIR|%22|EVET|%30|4|EVET|%21|EVET|%41|2|HAYIR|%27|EVET|%32|4|EVET|%25|
↳ EVET|%31|4|EVET|%28|EVET|%40|2|HAYIR|%26|EVET|%31|2|HAYIR|%21|EVET|%28|2|HAYIR|%27|EVET|%28|4|EVET|%25|EVET|%31|2|HAYIR|%32|EVET|%51|3|HAYIR|
↳ %25|EVET|%27|4|EVET|%20|EVET|%33
372 371|2026-07-29 19:57:49|4|3/2|EVET|%41|%18|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%23|%39|T•B|EVET|%52|%57|DONGU_TERS_YON|FRAGMENTARY_2|D
↳ ONGU_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%65|3|EVET|%21|EVET|%39|2|HAYIR|%22|EVET|%27|3|EVET|%22|EVET|%56|2|HAYIR|%27|EVET|%34|3|EVE
↳ T|%26|EVET|%46|3|EVET|%29|EVET|%56|3|EVET|%26|EVET|%32|3|EVET|%21|EVET|%30|3|EVET|%27|EVET|%30|3|EVET|%26|EVET|%38|2|HAYIR|%31|EVET|%64|3|EVE
↳ T|%25|EVET|%27|3|EVET|%21|EVET|%33
373 372|2026-07-29 19:57:51|3|4/3|EVET|%41|%18|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%34|C•B|EVET|%52|%58|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%22|EVET|%34|3|HAYIR|%22|EVET|%27|3|HAYIR|%23|EVET|%38|3|HAYIR|%26|EVET|%37|4
↳ |EVET|%26|EVET|%31|4|EVET|%30|EVET|%30|4|EVET|%26|EVET|%32|3|HAYIR|%22|EVET|%30|2|HAYIR|%28|EVET|%28|3|HAYIR|%26|EVET|%27|3|HAYIR|%31|EVET|%6
↳ 7|3|HAYIR|%25|EVET|%27|2|HAYIR|%22|EVET|%30
374 373|2026-07-29 19:57:52|4|2/3|HAYIR|%41|%18|EVET|%23|%60|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%52|C•K|HAYIR|%52|%62|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>DONGU_TERS>DONGU_TERS||HAYIR|%56|2|HAYIR|%22|EVET|%52|2|HAYIR|%22|EVET|%27|2|HAYIR|%23|EVET|%48|2|HAYIR|%26|EVET|%42|2|HAYIR|%27|EVET|%
↳ 43|2|HAYIR|%31|EVET|%76|3|EVET|%27|EVET|%34|4|HAYIR|%22|EVET|%32|3|EVET|%27|EVET|%32|2|HAYIR|%26|EVET|%41|2|HAYIR|%31|EVET|%95|3|EVET|%25|EVE
↳ T|%27|3|EVET|%22|EVET|%38
375 374|2026-07-29 19:57:53|3|4/3|EVET|%42|%18|HAYIR|%23|%49|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%23|%34|C•B|EVET|%52|%56|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>VADI>DONGU_TERS||HAYIR|%60|3|HAYIR|%21|EVET|%34|3|HAYIR|%21|EVET|%29|1|HAYIR|%23|EVET|%38|3|HAYIR|%26|EVET|%38|3|HAYIR|%27|EVET|%32|3|HA
↳ YIR|%30|EVET|%37|4|EVET|%28|EVET|%33|4|EVET|%21|EVET|%31|4|EVET|%28|EVET|%27|3|HAYIR|%26|EVET|%28|3|HAYIR|%30|EVET|%52|3|HAYIR|%26|EVET|%27|2
↳ |HAYIR|%23|EVET|%28
376 375|2026-07-29 19:58:03|4|3/2|EVET|%42|%18|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%48|C•K|HAYIR|%52|%59|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>DONGU_TERS>DONGU_TERS||HAYIR|%47|2|HAYIR|%21|EVET|%48|3|EVET|%21|EVET|%28|3|EVET|%22|EVET|%42|2|HAYIR|%26|EVET|%39|2|HAYIR|%27|EVET|%42
↳ |2|HAYIR|%30|EVET|%73|3|EVET|%29|EVET|%36|4|HAYIR|%22|EVET|%31|3|EVET|%29|EVET|%33|2|HAYIR|%26|EVET|%38|2|HAYIR|%30|EVET|%95|3|EVET|%26|EVET|
↳ %27|3|EVET|%22|EVET|%41
377 376|2026-07-29 19:58:04|3|4/2|HAYIR|%42|%18|EVET|%23|%55|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%32|C•B|EVET|%52|%59|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>ZIGZAK_KOM>DONGU_TERS||HAYIR|%77|4|HAYIR|%21|EVET|%32|4|HAYIR|%22|EVET|%32|4|HAYIR|%23|EVET|%50|3|HAYIR|%25|EVET|%38|3|HAYIR|%26|EVET|%3
↳ 1|3|HAYIR|%30|EVET|%33|4|HAYIR|%30|EVET|%35|3|HAYIR|%22|EVET|%33|4|HAYIR|%30|EVET|%29|4|HAYIR|%25|EVET|%33|4|HAYIR|%30|EVET|%56|4|HAYIR|%26|E
↳ VET|%26|4|HAYIR|%23|EVET|%30
378 377|2026-07-29 19:58:06|2|4/3|HAYIR|%42|%18|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%29|C•B|HAYIR|%52|%56|ZIGZAK_KOM_SALINIMM|FRAGMEN
↳ TARY_2|TEPE>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%62|3|HAYIR|%21|EVET|%29|3|HAYIR|%22|EVET|%31|2|HAYIR|%23|EVET|%50|4|HAYIR|%25|EVET
↳ |%34|1|EVET|%26|EVET|%39|2|HAYIR|%29|EVET|%31|4|HAYIR|%29|EVET|%33|4|HAYIR|%22|EVET|%32|4|HAYIR|%29|EVET|%29|3|HAYIR|%25|EVET|%27|3|HAYIR|%29
↳ |EVET|%58|4|HAYIR|%26|EVET|%26|4|HAYIR|%23|EVET|%31
379 378|2026-07-29 19:58:07|1|3/1|HAYIR|%42|%18|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%23|%51|C•K|EVET|%52|%56|ZIGZAK_KOM_SALINIMM|FRAGMENT
↳ ARY_2|VADI>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%32|1|HAYIR|%21|EVET|%51|4|HAYIR|%22|EVET|%33|1|HAYIR|%23|EVET|%46|4|HAYIR|%25|EVET|
↳ %33|1|HAYIR|%27|EVET|%40|1|HAYIR|%29|EVET|%68|3|HAYIR|%29|EVET|%33|4|HAYIR|%22|EVET|%36|3|HAYIR|%29|EVET|%31|1|HAYIR|%25|EVET|%30|1|HAYIR|%29
↳ |EVET|%93|4|HAYIR|%26|EVET|%26|1|HAYIR|%23|EVET|%30
380 379|2026-07-29 19:58:11|2|4/3|HAYIR|%42|%18|EVET|%23|%31|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%43|C•B|EVET|%53|%56|ZIGZAK_KOM_SALINIMM|FRAGMENTA
↳ RY_2|DONGU>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%20|EVET|%43|3|EVET|%21|EVET|%34|1|HAYIR|%22|EVET|%47|1|HAYIR|%25|EVET|%
↳ 31|3|EVET|%27|EVET|%30|4|HAYIR|%29|EVET|%37|4|HAYIR|%29|EVET|%31|3|EVET|%21|EVET|%31|4|HAYIR|%29|EVET|%29|3|EVET|%25|EVET|%28|4|HAYIR|%29|EVE
↳ T|%33|4|HAYIR|%26|EVET|%26|4|HAYIR|%22|EVET|%40
381 380|2026-07-29 19:58:12|3|4/1|HAYIR|%42|%18|EVET|%24|%24|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%23|%44|C•K|EVET|%53|%67|ZIGZAK_KOM_SALINIMM|FRAGMENTAR
↳ Y_2|VADI>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%25|1|EVET|%20|EVET|%44|4|HAYIR|%22|EVET|%38|2|HAYIR|%22|EVET|%47|2|HAYIR|%24|EVET|%27
↳ |1|EVET|%27|EVET|%40|1|EVET|%28|EVET|%63|4|HAYIR|%28|EVET|%33|3|HAYIR|%22|EVET|%34|2|HAYIR|%28|EVET|%28|2|HAYIR|%25|EVET|%28|1|EVET|%28|EVET|
↳ %84|4|HAYIR|%25|EVET|%26|1|EVET|%22|EVET|%31
382 381|2026-07-29 19:58:12|1|2/3|EVET|%42|%18|HAYIR|%24|%55|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%23|%51|C•K|EVET|%53|%54|ZIGZAK_KOM_SALINIMM|FRAGMENTAR
↳ Y_2|TEPE>DONGU_TERS>ZIGZAK_KOM||HAYIR|%60|2|EVET|%21|EVET|%51|3|HAYIR|%22|EVET|%32|2|EVET|%22|EVET|%59|4|HAYIR|%24|EVET|%32|2|EVET|%28|EVET|%
↳ 43|2|EVET|%29|EVET|%63|3|HAYIR|%28|EVET|%32|3|HAYIR|%22|EVET|%29|3|HAYIR|%28|EVET|%30|2|EVET|%25|EVET|%37|2|EVET|%29|EVET|%67|4|HAYIR|%25|EVE
↳ T|%25|2|EVET|%23|EVET|%34
383 382|2026-07-29 19:58:13|2|4/3|EVET|%42|%18|HAYIR|%24|%43|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%24|%58|C•B|EVET|%53|%63|VADI_YON|FRAGMENTARY_2|DONGU>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%73|4|EVET|%22|EVET|%58|4|EVET|%22|EVET|%28|4|EVET|%23|EVET|%83|2|HAYIR|%24|EVET|%42|4|EVET|%29|EVET|%
↳ 43|4|EVET|%30|EVET|%61|3|HAYIR|%28|EVET|%31|4|EVET|%22|EVET|%32|4|EVET|%28|EVET|%28|4|EVET|%26|EVET|%43|4|EVET|%30|EVET|%81|3|HAYIR|%25|EVET|
↳ %27|4|EVET|%24|EVET|%36
384 383|2026-07-29 19:58:14|4|3/4|HAYIR|%42|%18|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%23|%37|T•B|HAYIR|%53|%62|VADI_YON|FRAGMENTARY_2|DONG
↳ U_TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%23|EVET|%37|3|HAYIR|%23|EVET|%29|3|HAYIR|%24|EVET|%50|2|EVET|%24|EVET|%28|4|HAYIR
↳ |%30|EVET|%44|4|HAYIR|%31|EVET|%45|3|HAYIR|%28|EVET|%37|3|HAYIR|%23|EVET|%35|3|HAYIR|%28|EVET|%34|3|HAYIR|%27|EVET|%33|1|HAYIR|%31|EVET|%67|3
↳ |HAYIR|%25|EVET|%27|1|HAYIR|%25|EVET|%31
385 384|2026-07-29 19:58:18|2|4/3|HAYIR|%42|%18|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%23|%33|T•K|EVET|%53|%58|DONGU_YON|FRAGMENTARY_2|DONG
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 385 ve sonrası)

```
↳ U_TERS>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%22|EVET|%33|4|HAYIR|%22|EVET|%31|4|HAYIR|%23|EVET|%57|2|EVET|%24|EVET|%32|4|HAYI
↳ R|%29|EVET|%43|4|HAYIR|%30|EVET|%43|4|HAYIR|%27|EVET|%32|3|HAYIR|%22|EVET|%33|4|HAYIR|%28|EVET|%29|4|HAYIR|%26|EVET|%34|4|HAYIR|%30|EVET|%59|
↳ 3|HAYIR|%24|EVET|%27|1|HAYIR|%24|EVET|%29
386 385|2026-07-29 19:58:19|2|3/4|HAYIR|%42|%18|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%24|%34|T•B|EVET|%53|%60|DONGU_YON|FRAGMENTARY_2|DONGU
↳ _TERS>ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%45|1|EVET|%22|EVET|%34|2|HAYIR|%22|EVET|%31|3|HAYIR|%23|EVET|%31|1|EVET|%25|EVET|%40|3|HAYIR|
↳ %29|EVET|%46|3|HAYIR|%30|EVET|%44|4|HAYIR|%27|EVET|%30|3|HAYIR|%22|EVET|%34|4|HAYIR|%28|EVET|%29|3|HAYIR|%26|EVET|%34|3|HAYIR|%30|EVET|%68|3|
↳ HAYIR|%24|EVET|%27|1|EVET|%24|EVET|%31
387 386|2026-07-29 19:58:21|1|3/1|EVET|%42|%18|HAYIR|%23|%25|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%41|C•B|EVET|%53|%52|DONGU_YON|FRAGMENTARY_2|DONGU
↳ _TERS>ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%32|1|HAYIR|%23|EVET|%41|4|HAYIR|%22|EVET|%39|1|HAYIR|%23|EVET|%31|4|HAYIR|%26|EVET|%44|3|EVET
↳ |%29|EVET|%33|1|HAYIR|%30|EVET|%40|2|HAYIR|%27|EVET|%31|4|HAYIR|%22|EVET|%29|3|EVET|%28|EVET|%30|3|EVET|%26|EVET|%29|3|EVET|%30|EVET|%48|3|EV
↳ ET|%24|EVET|%27|2|HAYIR|%25|EVET|%29
388 387|2026-07-29 19:58:22|3|2/4|EVET|%42|%19|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%23|%37|C•K|EVET|%53|%61|DONGU_YON|FRAGMENTARY_2|VADI>
↳ ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%51|4|HAYIR|%23|EVET|%37|2|EVET|%22|EVET|%29|4|HAYIR|%23|EVET|%44|4|HAYIR|%25|EVET|%41|2|EVET|%29|EV
↳ ET|%44|2|EVET|%29|EVET|%43|4|HAYIR|%26|EVET|%32|2|EVET|%22|EVET|%31|2|EVET|%28|EVET|%28|2|EVET|%26|EVET|%34|2|EVET|%30|EVET|%50|3|HAYIR|%25|E
↳ VET|%27|4|HAYIR|%25|EVET|%38
389 388|2026-07-29 19:58:23|2|1/3|HAYIR|%42|%19|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%24|%31|C•K|EVET|%53|%59|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%43|2|EVET|%22|EVET|%31|4|HAYIR|%22|EVET|%31|1|HAYIR|%22|EVET|%36|4|HAYIR|%25|EVET|%38|1|HAYIR|%30|E
↳ VET|%40|1|HAYIR|%30|EVET|%40|4|HAYIR|%26|EVET|%31|3|HAYIR|%22|EVET|%29|4|HAYIR|%29|EVET|%28|1|HAYIR|%27|EVET|%27|3|HAYIR|%31|EVET|%94|3|HAYIR
↳ |%24|EVET|%27|4|HAYIR|%24|EVET|%29
390 389|2026-07-29 19:58:24|2|1/4|HAYIR|%42|%19|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%50|T•B|HAYIR|%53|%58|DONGU_YON|FRAGMENTARY_2|DON
↳ GU>ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%53|1|HAYIR|%23|EVET|%50|2|EVET|%22|EVET|%38|1|HAYIR|%22|EVET|%44|1|HAYIR|%25|EVET|%38|1|HAYIR|%3
↳ 0|EVET|%40|1|HAYIR|%30|EVET|%70|1|HAYIR|%26|EVET|%30|3|HAYIR|%22|EVET|%30|4|HAYIR|%29|EVET|%28|1|HAYIR|%27|EVET|%41|4|HAYIR|%31|EVET|%64|2|EV
↳ ET|%24|EVET|%25|1|HAYIR|%24|EVET|%36
391 390|2026-07-29 19:58:25|2|3/1|EVET|%42|%19|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%41|T•B|EVET|%53|%62|VADI_YON|FRAGMENTARY_2|DONGU>
↳ VADI>VADI|PATTERN_BREAK:0,59|EVET|%36|1|HAYIR|%23|EVET|%41|4|HAYIR|%23|EVET|%35|1|HAYIR|%22|EVET|%39|1|HAYIR|%25|EVET|%47|3|EVET|%29|EVET|%45
↳ |3|EVET|%29|EVET|%41|3|EVET|%26|EVET|%30|3|EVET|%22|EVET|%35|4|HAYIR|%28|EVET|%27|3|EVET|%27|EVET|%31|1|HAYIR|%30|EVET|%40|2|HAYIR|%25|EVET|%
↳ 26|1|HAYIR|%24|EVET|%33
392 391|2026-07-29 19:58:31|3|1/2|EVET|%42|%19|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%24|%38|C•K|EVET|%54|%59|VADI_YON|FRAGMENTARY_2|DONGU>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%51|1|EVET|%23|EVET|%38|2|HAYIR|%23|EVET|%29|4|HAYIR|%22|EVET|%38|4|HAYIR|%25|EVET|%29|1|EVET|%30|EVET|%39|1
↳ |EVET|%30|EVET|%47|2|HAYIR|%26|EVET|%32|2|HAYIR|%23|EVET|%37|2|HAYIR|%28|EVET|%29|1|EVET|%27|EVET|%30|4|HAYIR|%30|EVET|%50|2|HAYIR|%25|EVET|%
↳ 25|1|EVET|%24|EVET|%35
393 392|2026-07-29 19:58:34|1|2/3|HAYIR|%42|%19|HAYIR|%23|%56|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%24|%51|C•K|EVET|%54|%60|VADI_YON|FRAGMENTARY_2|DONGU
↳ >DONGU>VADI||HAYIR|%86|2|HAYIR|%23|EVET|%51|4|HAYIR|%22|EVET|%34|2|HAYIR|%22|EVET|%50|2|HAYIR|%24|EVET|%36|2|HAYIR|%31|EVET|%46|2|HAYIR|%31|E
↳ VET|%63|3|HAYIR|%26|EVET|%32|2|HAYIR|%22|EVET|%35|3|HAYIR|%28|EVET|%31|2|HAYIR|%28|EVET|%43|2|HAYIR|%30|EVET|%75|2|HAYIR|%24|EVET|%25|2|HAYIR
↳ |%24|EVET|%38
394 393|2026-07-29 19:58:35|1|1/3|HAYIR|%43|%19|EVET|%23|%32|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%24|%43|T•B|EVET|%54|%54|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE|PATTERN_BREAK:0,59|EVET|%38|3|EVET|%23|EVET|%43|2|HAYIR|%22|EVET|%30|4|HAYIR|%21|EVET|%40|3|EVET|%24|EVET|%50|1|HAYIR|%30|EVET|%41|1
↳ |HAYIR|%30|EVET|%51|3|EVET|%26|EVET|%40|1|HAYIR|%22|EVET|%28|3|EVET|%28|EVET|%30|3|EVET|%28|EVET|%31|1|HAYIR|%30|EVET|%88|2|HAYIR|%24|EVET|%2
↳ 5|3|EVET|%24|EVET|%40
395 394|2026-07-29 19:58:40|3|3/2|HAYIR|%42|%19|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%29|C•B|EVET|%54|%57|VADI_YON|FRAGMENTARY_2|AZALI
↳ S>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%62|3|HAYIR|%24|EVET|%29|4|EVET|%22|EVET|%27|3|HAYIR|%21|EVET|%29|2|HAYIR|%25|EVET|%35|3|HAYIR|%30|EVET|
↳ %46|3|HAYIR|%30|EVET|%43|2|HAYIR|%27|EVET|%31|3|HAYIR|%22|EVET|%30|2|HAYIR|%28|EVET|%29|3|HAYIR|%28|EVET|%30|3|HAYIR|%29|EVET|%45|2|HAYIR|%24
↳ |EVET|%25|4|EVET|%25|EVET|%35
396 395|2026-07-29 19:58:41|4|3/2|EVET|%43|%19|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%24|%44|C•B|EVET|%54|%58|VADI_YON|FRAGMENTARY_2|VADI>DO
↳ NGU>VADI|PATTERN_BREAK:0,59|EVET|%53|3|EVET|%24|EVET|%44|2|HAYIR|%23|EVET|%29|3|EVET|%21|EVET|%57|2|HAYIR|%25|EVET|%32|2|HAYIR|%30|EVET|%37|3
↳ |EVET|%30|EVET|%46|3|EVET|%26|EVET|%35|2|HAYIR|%22|EVET|%36|3|EVET|%28|EVET|%33|3|EVET|%28|EVET|%35|2|HAYIR|%29|EVET|%55|3|EVET|%24|EVET|%27|
↳ 3|EVET|%25|EVET|%44
397 396|2026-07-29 19:58:57|3|4/2|HAYIR|%42|%19|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%35|C•K|HAYIR|%54|%54|TEPE_YON|FRAGMENTARY_2|VADI
↳ >DONGU>TEPE||HAYIR|%58|4|HAYIR|%24|EVET|%35|4|HAYIR|%23|EVET|%29|4|HAYIR|%22|EVET|%39|3|EVET|%24|EVET|%37|2|HAYIR|%30|EVET|%45|4|HAYIR|%30|EV
↳ ET|%34|4|HAYIR|%27|EVET|%31|2|HAYIR|%22|EVET|%35|2|HAYIR|%29|EVET|%28|4|HAYIR|%29|EVET|%30|4|HAYIR|%29|EVET|%53|3|EVET|%24|EVET|%27|2|HAYIR|%
↳ 26|EVET|%30
398 397|2026-07-29 19:58:58|3|1/2|EVET|%43|%19|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%24|%44|C•K|EVET|%54|%53|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE|PATTERN_BREAK:0,59|EVET|%39|1|EVET|%24|EVET|%44|3|HAYIR|%22|EVET|%36|1|EVET|%21|EVET|%57|2|HAYIR|%25|EVET|%47|1|EVET|%29|EVET|%40|1|
↳ EVET|%30|EVET|%63|2|HAYIR|%27|EVET|%39|3|HAYIR|%21|EVET|%33|2|HAYIR|%28|EVET|%27|1|EVET|%28|EVET|%37|3|HAYIR|%28|EVET|%71|3|HAYIR|%25|EVET|%2
↳ 7|2|HAYIR|%26|EVET|%32
399 398|2026-07-29 19:58:59|1|4/3|HAYIR|%42|%19|HAYIR|%23|%58|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%37|T•B|HAYIR|%54|%55|TEPE_YON|FRAGMENTARY_2|DONG
↳ U_TERS>VADI>TEPE||HAYIR|%77|4|HAYIR|%25|EVET|%37|3|HAYIR|%22|EVET|%28|4|HAYIR|%22|EVET|%67|2|EVET|%25|EVET|%41|4|HAYIR|%30|EVET|%41|4|HAYIR|%
↳ 31|EVET|%55|3|HAYIR|%26|EVET|%33|3|HAYIR|%21|EVET|%33|3|HAYIR|%28|EVET|%32|4|HAYIR|%29|EVET|%37|2|EVET|%28|EVET|%97|3|HAYIR|%25|EVET|%27|2|EV
↳ ET|%26|EVET|%35
400 399|2026-07-29 19:59:01|2|4/3|HAYIR|%42|%19|HAYIR|%23|%46|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%54|T•B|EVET|%54|%55|TEPE_YON|FRAGMENTARY_2|VADI>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%69|4|HAYIR|%25|EVET|%54|3|HAYIR|%22|EVET|%29|4|HAYIR|%22|EVET|%79|2|HAYIR|%25|EVET|%39|4|HAYIR|%30|EVET|%4
↳ 1|4|HAYIR|%31|EVET|%56|4|HAYIR|%26|EVET|%30|3|HAYIR|%21|EVET|%33|4|HAYIR|%28|EVET|%26|4|HAYIR|%29|EVET|%39|4|HAYIR|%29|EVET|%85|3|HAYIR|%25|E
↳ VET|%27|4|HAYIR|%26|EVET|%39
401 400|2026-07-29 19:59:02|1|4/3|EVET|%43|%19|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%24|%28|C•B|EVET|%54|%59|TEPE_YON|FRAGMENTARY_2|TEPE>VA
↳ DI>TEPE|PATTERN_BREAK:0,59|EVET|%42|4|EVET|%24|EVET|%28|4|EVET|%22|EVET|%27|2|HAYIR|%22|EVET|%33|4|EVET|%25|EVET|%53|4|EVET|%29|EVET|%41|4|EV
↳ ET|%30|EVET|%50|2|HAYIR|%26|EVET|%32|2|HAYIR|%21|EVET|%28|3|HAYIR|%28|EVET|%31|4|EVET|%29|EVET|%32|4|EVET|%29|EVET|%95|3|HAYIR|%24|EVET|%27|3
↳ |HAYIR|%26|EVET|%31
402 401|2026-07-29 19:59:04|4|2/1|HAYIR|%43|%19|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%31|C•K|EVET|%54|%61|TEPE_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>TEPE|PATTERN_BREAK:0,59|EVET|%33|2|HAYIR|%25|EVET|%31|3|HAYIR|%22|EVET|%28|1|EVET|%22|EVET|%37|4|HAYIR|%26|EVET|%37|1|EVET|%30|EVET|%41|1
↳ |EVET|%31|EVET|%35|3|HAYIR|%26|EVET|%37|2|HAYIR|%21|EVET|%29|3|HAYIR|%27|EVET|%35|1|EVET|%29|EVET|%27|2|HAYIR|%29|EVET|%34|3|HAYIR|%24|EVET|%
↳ 27|3|HAYIR|%26|EVET|%32
403 402|2026-07-29 19:59:06|1|1/3|EVET|%43|%20|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%24|%46|C•K|EVET|%54|%61|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%64|1|EVET|%25|EVET|%46|4|HAYIR|%22|EVET|%29|1|EVET|%22|EVET|%100|2|HAYIR|%26|EVET|%35|1|EVET|%31|EVET|%
↳ 42|1|EVET|%31|EVET|%75|2|HAYIR|%26|EVET|%31|3|HAYIR|%21|EVET|%29|3|HAYIR|%27|EVET|%30|1|EVET|%30|EVET|%42|1|EVET|%29|EVET|%94|1|EVET|%24|EVET
↳ |%25|3|HAYIR|%26|EVET|%31
404 403|2026-07-29 19:59:07|1|1/3|HAYIR|%43|%20|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%40|T•B|HAYIR|%54|%56|TEPE_YON|FRAGMENTARY_2|VADI
↳ >VADI>TEPE|PATTERN_BREAK:0,59|EVET|%53|3|HAYIR|%25|EVET|%40|1|HAYIR|%22|EVET|%34|1|HAYIR|%23|EVET|%51|3|HAYIR|%25|EVET|%55|1|HAYIR|%31|EVET|%
↳ 42|1|HAYIR|%32|EVET|%56|3|HAYIR|%25|EVET|%43|1|HAYIR|%20|EVET|%29|3|HAYIR|%27|EVET|%30|1|HAYIR|%30|EVET|%34|3|HAYIR|%30|EVET|%85|1|HAYIR|%25|
↳ EVET|%25|3|HAYIR|%25|EVET|%44
405 404|2026-07-29 19:59:10|2|3/4|EVET|%43|%20|HAYIR|%23|%50|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%44|C•B|EVET|%54|%63|VADI_YON|FRAGMENTARY_2|DONGU>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%68|3|EVET|%25|EVET|%44|4|HAYIR|%22|EVET|%29|3|EVET|%23|EVET|%54|3|EVET|%25|EVET|%42|3|EVET|%31|EVET|%45|3|E
↳ VET|%32|EVET|%62|4|HAYIR|%25|EVET|%29|3|EVET|%20|EVET|%37|4|HAYIR|%27|EVET|%26|3|EVET|%30|EVET|%42|3|EVET|%29|EVET|%50|1|HAYIR|%24|EVET|%25|4
↳ |HAYIR|%25|EVET|%36
406 405|2026-07-29 19:59:11|3|1/2|HAYIR|%43|%20|EVET|%23|%54|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%57|C•K|EVET|%55|%63|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%74|1|HAYIR|%26|EVET|%57|3|HAYIR|%22|EVET|%34|1|HAYIR|%23|EVET|%49|2|EVET|%26|EVET|%35|1|HAYIR|%
↳ 31|EVET|%42|1|HAYIR|%32|EVET|%80|4|HAYIR|%25|EVET|%31|1|HAYIR|%21|EVET|%29|2|EVET|%27|EVET|%27|1|HAYIR|%31|EVET|%44|1|HAYIR|%30|EVET|%89|1|HA
↳ YIR|%24|EVET|%25|1|HAYIR|%25|EVET|%39
407 406|2026-07-29 19:59:12|2|2/3|HAYIR|%43|%20|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%33|C•K|EVET|%55|%59|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%26|EVET|%33|3|HAYIR|%21|EVET|%29|2|HAYIR|%23|EVET|%40|1|EVET|%26|EVET|%36|3|HAYIR|%31|EVE
↳ T|%33|3|HAYIR|%32|EVET|%34|3|HAYIR|%25|EVET|%30|3|HAYIR|%21|EVET|%30|3|HAYIR|%27|EVET|%26|2|HAYIR|%30|EVET|%29|4|HAYIR|%30|EVET|%74|2|HAYIR|%
↳ 24|EVET|%25|2|HAYIR|%25|EVET|%30
408 407|2026-07-29 19:59:16|1|1/2|HAYIR|%43|%20|EVET|%23|%47|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%33|C•B|EVET|%55|%55|TEPE_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%69|1|HAYIR|%25|EVET|%33|3|HAYIR|%21|EVET|%34|4|HAYIR|%23|EVET|%39|1|HAYIR|%27|EVET|%31|1|HAYIR|%31|EVET
↳ |%32|1|HAYIR|%32|EVET|%50|2|EVET|%25|EVET|%31|2|EVET|%20|EVET|%28|3|HAYIR|%27|EVET|%29|1|HAYIR|%30|EVET|%30|1|HAYIR|%29|EVET|%93|1|HAYIR|%24|
↳ EVET|%25|3|HAYIR|%25|EVET|%28
409 408|2026-07-29 19:59:17|2|3/4|EVET|%43|%20|HAYIR|%23|%46|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%47|T•B|EVET|%55|%61|VADI_YON|FRAGMENTARY_2|TEPE>TE
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 409 ve sonrası)

```
PE>VADI|PATTERN_BREAK:0,59|EVET|%65|3|EVET|%25|EVET|%47|4|HAYIR|%21|EVET|%28|3|EVET|%23|EVET|%38|1|HAYIR|%27|EVET|%31|3|EVET|%31|EVET|%45|3|E
VET|%32|EVET|%66|3|EVET|%25|EVET|%29|3|EVET|%21|EVET|%31|3|EVET|%27|EVET|%26|3|EVET|%30|EVET|%40|3|EVET|%29|EVET|%54|3|EVET|%24|EVET|%27|4|HA
YIR|%24|EVET|%34
409|2026-07-29 19:59:18|3|1|HAYIR|%43|%20|HAYIR|%23|%81|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%56|C•K|EVET|%55|%66|DONGU_YON|FRAGMENTARY_2|TEPE>T
EPE>DONGU||HAYIR|%88|1|HAYIR|%26|EVET|%56|2|HAYIR|%21|EVET|%37|1|HAYIR|%23|EVET|%48|1|HAYIR|%26|EVET|%30|1|HAYIR|%31|EVET|%42|1|HAYIR|%32|EVE
T|%80|2|HAYIR|%26|EVET|%31|2|HAYIR|%22|EVET|%33|2|HAYIR|%27|EVET|%28|1|HAYIR|%30|EVET|%42|1|HAYIR|%30|EVET|%79|3|HAYIR|%24|EVET|%27|1|HAYIR|%
24|EVET|%36
410|2026-07-29 19:59:20|4|3/4|EVET|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%47|T•B|EVET|%55|%57|ZIGZAK_KOM_SALINIMM|FRAGMENTAR
Y_2|DALGA_TEK_SIM_2>VADI>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%64|3|EVET|%25|EVET|%47|1|HAYIR|%21|EVET|%28|3|EVET|%23|EVET|%41|3|EVET|%26|EVET|
%29|3|EVET|%31|EVET|%31|3|EVET|%32|EVET|%40|3|EVET|%25|EVET|%35|3|EVET|%22|EVET|%29|3|EVET|%27|EVET|%34|3|EVET|%30|EVET|%35|4|HAYIR|%29|EVET|
%85|3|EVET|%24|EVET|%27|3|EVET|%24|EVET|%46
411|2026-07-29 19:59:21|3|3/4|HAYIR|%43|%20|HAYIR|%23|%57|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%33|C•B|HAYIR|%55|%63|ZIGZAK_KOM_SALINIMM|FRAGMEN
TARY_2|BLOK_DUZ>TEPE>ZIGZAK_KOM||HAYIR|%78|3|HAYIR|%26|EVET|%33|3|HAYIR|%21|EVET|%28|2|HAYIR|%24|EVET|%33|3|HAYIR|%27|EVET|%39|3|HAYIR|%32|EV
ET|%38|3|HAYIR|%32|EVET|%46|4|HAYIR|%26|EVET|%31|2|HAYIR|%22|EVET|%31|2|HAYIR|%28|EVET|%28|3|HAYIR|%31|EVET|%30|3|HAYIR|%29|EVET|%47|3|HAYIR|
%25|EVET|%27|2|HAYIR|%25|EVET|%28
412|2026-07-29 19:59:55|1|4/2|HAYIR|%43|%20|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%42|C•K|EVET|%55|%57|ZIGZAK_KOM_SALINIMM|FRAGMENT
ARY_2|TEPE>VADI>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%53|2|HAYIR|%26|EVET|%42|3|HAYIR|%20|EVET|%29|4|HAYIR|%24|EVET|%55|3|HAYIR|%27|EVET|%40|4|
HAYIR|%31|EVET|%40|4|HAYIR|%32|EVET|%47|2|HAYIR|%26|EVET|%33|2|HAYIR|%22|EVET|%30|2|HAYIR|%27|EVET|%29|4|HAYIR|%31|EVET|%31|2|HAYIR|%29|EVET|
%70|3|HAYIR|%24|EVET|%27|2|HAYIR|%24|EVET|%39
413|2026-07-29 19:59:57|1|1/3|HAYIR|%43|%20|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%48|T•B|EVET|%55|%53|TEPE_YON|FRAGMENTARY_2|TEPE>DO
NGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%43|3|EVET|%26|EVET|%48|2|HAYIR|%20|EVET|%36|4|HAYIR|%23|EVET|%33|3|EVET|%26|EVET|%53|1|HAYIR|%31|EVET|
%43|1|HAYIR|%32|EVET|%52|3|EVET|%26|EVET|%37|1|HAYIR|%22|EVET|%31|2|HAYIR|%27|EVET|%28|3|EVET|%30|EVET|%35|1|HAYIR|%29|EVET|%81|3|EVET|%24|EV
ET|%27|3|EVET|%24|EVET|%40
414|2026-07-29 19:59:58|3|4/3|HAYIR|%43|%20|EVET|%23|%37|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%43|C•B|EVET|%55|%50|TEPE_YON|FRAGMENTARY_2|BLOK_T
ERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%62|4|HAYIR|%26|EVET|%43|3|EVET|%20|EVET|%28|4|HAYIR|%23|EVET|%48|3|EVET|%27|EVET|%49|3|EVET|%31|EVET|%
34|4|HAYIR|%32|EVET|%40|4|HAYIR|%26|EVET|%30|3|EVET|%22|EVET|%36|2|HAYIR|%27|EVET|%27|4|HAYIR|%31|EVET|%31|3|EVET|%29|EVET|%41|1|HAYIR|%25|EV
ET|%25|4|HAYIR|%25|EVET|%38
415|2026-07-29 20:00:01|3|2/1|HAYIR|%43|%20|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%54|C•K|HAYIR|%55|%60|TEPE_YON|FRAGMENTARY_2|VADI
>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%66|2|HAYIR|%26|EVET|%54|2|HAYIR|%21|EVET|%35|2|HAYIR|%23|EVET|%77|2|HAYIR|%28|EVET|%45|2|HAYIR|%31|EVET|%
44|2|HAYIR|%31|EVET|%65|2|HAYIR|%26|EVET|%34|3|EVET|%22|EVET|%35|2|HAYIR|%27|EVET|%27|2|HAYIR|%31|EVET|%47|2|HAYIR|%29|EVET|%81|1|HAYIR|%25|E
VET|%25|1|HAYIR|%25|EVET|%35
416|2026-07-29 20:00:03|3|1/2|HAYIR|%43|%20|EVET|%23|%34|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%35|T•B|HAYIR|%55|%50|TEPE_YON|FRAGMENTARY_2|DONGU
_TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%26|EVET|%35|3|HAYIR|%21|EVET|%30|4|HAYIR|%23|EVET|%45|2|EVET|%27|EVET|%43|1|HAYIR|%31|EV
ET|%42|1|HAYIR|%31|EVET|%39|2|EVET|%26|EVET|%33|3|HAYIR|%23|EVET|%39|2|EVET|%27|EVET|%26|1|HAYIR|%30|EVET|%30|4|HAYIR|%29|EVET|%59|1|HAYIR|%2
4|EVET|%25|1|HAYIR|%24|EVET|%32
417|2026-07-29 20:00:07|2|1/3|HAYIR|%43|%20|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%25|T•K|HAYIR|%55|%54|VADI_YON|FRAGMENTARY_2|ARTI
S>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%26|EVET|%25|2|HAYIR|%20|EVET|%34|4|EVET|%23|EVET|%36|1|HAYIR|%28|EVET|%40|1|HAYIR|%31|EVET|
%42|1|HAYIR|%31|EVET|%38|3|HAYIR|%26|EVET|%31|3|HAYIR|%23|EVET|%36|3|HAYIR|%27|EVET|%27|1|HAYIR|%30|EVET|%28|3|HAYIR|%29|EVET|%75|1|HAYIR|%24
|EVET|%25|2|HAYIR|%24|EVET|%28
418|2026-07-29 20:00:11|4|3/1|HAYIR|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%38|T•K|HAYIR|%55|%55|VADI_YON|FRAGMENTARY_2|TEPE
>ZIGZAK_KOM>VADI|PATTERN_BREAK:0,59|EVET|%56|1|HAYIR|%25|EVET|%38|3|HAYIR|%20|EVET|%35|3|HAYIR|%23|EVET|%43|1|HAYIR|%28|EVET|%46|1|HAYIR|%31|
EVET|%34|1|HAYIR|%31|EVET|%50|3|HAYIR|%26|EVET|%37|3|HAYIR|%22|EVET|%32|3|HAYIR|%27|EVET|%35|1|HAYIR|%30|EVET|%31|1|HAYIR|%28|EVET|%75|1|HAYI
R|%24|EVET|%25|3|HAYIR|%24|EVET|%30
419|2026-07-29 20:00:15|4|1/3|HAYIR|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%37|T•K|EVET|%55|%58|TEPE_YON|FRAGMENTARY_2|TEPE>
ZIGZAK_KOM>TEPE|PATTERN_BREAK:0,59|EVET|%44|3|HAYIR|%25|EVET|%37|2|EVET|%20|EVET|%36|4|HAYIR|%23|EVET|%42|1|HAYIR|%27|EVET|%35|1|HAYIR|%30|EV
ET|%29|1|HAYIR|%30|EVET|%37|3|HAYIR|%26|EVET|%32|3|HAYIR|%22|EVET|%43|3|HAYIR|%27|EVET|%34|3|HAYIR|%30|EVET|%34|2|EVET|%28|EVET|%51|2|EVET|%2
4|EVET|%25|3|HAYIR|%24|EVET|%34
420|2026-07-29 20:00:18|2|1/2|EVET|%43|%20|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%33|T•K|EVET|%55|%59|TEPE_YON|FRAGMENTARY_2|VADI>ZI
GZAK_KOM>TEPE|PATTERN_BREAK:0,59|EVET|%33|1|EVET|%25|EVET|%33|3|HAYIR|%21|EVET|%36|3|HAYIR|%23|EVET|%37|1|EVET|%27|EVET|%39|2|HAYIR|%30|EVET|
%44|1|EVET|%30|EVET|%35|3|HAYIR|%26|EVET|%30|3|HAYIR|%22|EVET|%31|3|HAYIR|%27|EVET|%27|2|HAYIR|%29|EVET|%26|1|EVET|%29|EVET|%82|3|HAYIR|%24|E
VET|%27|2|HAYIR|%24|EVET|%28
421|2026-07-29 20:00:23|1|1/2|EVET|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%35|T•B|EVET|%55|%57|TEPE_YON|FRAGMENTARY_2|BLOK_DU
Z>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%56|1|EVET|%26|EVET|%35|3|HAYIR|%21|EVET|%28|3|HAYIR|%23|EVET|%36|3|HAYIR|%28|EVET|%39|1|EVET|%30|EVET|%3
0|1|EVET|%31|EVET|%48|2|HAYIR|%26|EVET|%32|1|EVET|%22|EVET|%28|3|HAYIR|%26|EVET|%29|1|EVET|%29|EVET|%27|1|EVET|%29|EVET|%99|3|HAYIR|%24|EVET|
%27|2|HAYIR|%23|EVET|%30
422|2026-07-29 20:00:25|1|3/1|HAYIR|%43|%20|HAYIR|%23|%54|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%57|T•B|HAYIR|%55|%57|DONGU_YON|FRAGMENTARY_2|TEP
E>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%75|3|HAYIR|%26|EVET|%57|4|HAYIR|%20|EVET|%28|3|HAYIR|%23|EVET|%55|3|HAYIR|%28|EVET|%63|3|HAYIR|%30|EVET
|%46|3|HAYIR|%31|EVET|%61|3|HAYIR|%25|EVET|%40|3|HAYIR|%23|EVET|%31|3|HAYIR|%26|EVET|%29|3|HAYIR|%30|EVET|%47|3|HAYIR|%30|EVET|%88|3|HAYIR|%2
4|EVET|%27|3|HAYIR|%23|EVET|%44
423|2026-07-29 20:00:29|2|3/4|HAYIR|%43|%20|EVET|%23|%52|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%49|C•B|EVET|%55|%61|DONGU_YON|FRAGMENTARY_2|TEPE>
TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%75|3|HAYIR|%26|EVET|%49|2|HAYIR|%20|EVET|%29|3|HAYIR|%22|EVET|%58|3|HAYIR|%27|EVET|%38|3|HAYIR|%30|EVET|%
46|3|HAYIR|%31|EVET|%53|3|HAYIR|%25|EVET|%29|3|HAYIR|%22|EVET|%31|3|HAYIR|%26|EVET|%26|3|HAYIR|%30|EVET|%41|3|HAYIR|%30|EVET|%67|3|HAYIR|%24|
EVET|%27|3|HAYIR|%23|EVET|%37
424|2026-07-29 20:00:34|4|1/3|HAYIR|%43|%20|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%29|C•K|EVET|%55|%53|VADI_YON|FRAGMENTARY_2|VADI>
TEPE>VADI|PATTERN_BREAK:0,59|EVET|%48|1|HAYIR|%26|EVET|%29|3|HAYIR|%20|EVET|%28|1|HAYIR|%22|EVET|%27|1|HAYIR|%27|EVET|%38|3|HAYIR|%30|EVET|%2
8|1|HAYIR|%31|EVET|%31|3|HAYIR|%25|EVET|%36|2|HAYIR|%22|EVET|%32|3|HAYIR|%26|EVET|%33|3|HAYIR|%29|EVET|%28|1|HAYIR|%29|EVET|%65|3|HAYIR|%24|E
VET|%27|3|HAYIR|%23|EVET|%28
425|2026-07-29 20:00:38|4|2/1|HAYIR|%43|%20|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%0|T•K|EVET|%56|%0|VADI_YON|FRAGMENTARY_2|VADI>VAD
I>VADI||HAYIR|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|2|HAYIR|%0|E
VET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0
426|2026-07-29 20:01:19|1|2/3|HAYIR|%43|%20|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%41|T•K|HAYIR|%55|%61|VADI_YON|FRAGMENTARY_2|ARTI
S>VADI>VADI|PATTERN_BREAK:0,59|EVET|%32|1|HAYIR|%0|EVET|%41|3|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%53|2|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%43|1
|HAYIR|%0|EVET|%54|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%70|2|HAYIR|%0|EVET|%25|1|
HAYIR|%0|EVET|%32
427|2026-07-29 20:01:23|4|3/2|HAYIR|%43|%20|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%33|C•K|EVET|%55|%53|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%61|3|HAYIR|%0|EVET|%30|2|HAYIR|%0|
EVET|%31|2|HAYIR|%0|EVET|%40|3|HAYIR|%0|EVET|%35|4|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%54|2|HAYIR|%0|EV
ET|%25|3|HAYIR|%0|EVET|%28
428|2026-07-29 20:01:27|4|3/2|EVET|%43|%20|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%41|T•K|EVET|%55|%62|DONGU_TERS_YON|FRAGMENTARY_2|T
EPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%52|3|EVET|%0|EVET|%41|4|HAYIR|%0|EVET|%30|3|EVET|%0|EVET|%58|1|HAYIR|%0|EVET|%34|3|EVET|%0|EVET|
%44|3|EVET|%0|EVET|%57|1|HAYIR|%0|EVET|%29|3|EVET|%0|EVET|%40|3|EVET|%0|EVET|%31|3|EVET|%0|EVET|%39|3|EVET|%0|EVET|%75|2|HAYIR|%0|EVET|%25|2|
HAYIR|%0|EVET|%38
429|2026-07-29 20:03:24|3|1/4|EVET|%43|%20|HAYIR|%23|%25|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%31|T•B|EVET|%56|%60|TEPE_YON|FRAGMENTARY_2|BLOK_TE
RS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%33|1|EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%27|1|EVET|%0|EVET|%55|3|HAYIR|%0|EVET|%53|1|EVET|%0|EVET|%42|1|E
VET|%0|EVET|%55|4|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%27|1|EVET|%0|EVET|%31|4|HAYIR|%0|EVET|%65|2|HAYIR|%0|EVET|%25|2|HAYI
R|%0|EVET|%27
430|2026-07-29 20:03:32|1|2/4|HAYIR|%43|%20|HAYIR|%23|%56|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%51|C•B|EVET|%56|%55|TEPE_YON|FRAGMENTARY_2|DALGA
_TEK_SIM_2>DONGU>TEPE||HAYIR|%65|2|HAYIR|%40|EVET|%51|3|EVET|%0|EVET|%28|2|HAYIR|%40|EVET|%61|3|EVET|%20|EVET|%41|2|HAYIR|%40|EVET|%43|2|HAYI
R|%60|EVET|%69|2|HAYIR|%0|EVET|%31|4|HAYIR|%40|EVET|%27|2|HAYIR|%20|EVET|%28|2|HAYIR|%40|EVET|%41|2|HAYIR|%20|EVET|%57|1|HAYIR|%0|EVET|%25|2|
HAYIR|%0|EVET|%36
431|2026-07-29 20:04:01|3|4/2|EVET|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%41|T•B|EVET|%56|%52|DONGU_TERS_YON|FRAGMENTARY_2|B
LOK_DUZ>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%60|4|EVET|%33|EVET|%41|1|HAYIR|%16|EVET|%28|4|EVET|%33|EVET|%57|3|HAYIR|%33|EVET|%32|4|EVET
|%33|EVET|%32|4|EVET|%50|EVET|%48|4|EVET|%0|EVET|%30|4|EVET|%33|EVET|%27|2|HAYIR|%16|EVET|%27|4|EVET|%33|EVET|%34|4|EVET|%16|EVET|%58|3|HAYIR
|%0|EVET|%27|4|EVET|%0|EVET|%35
432|2026-07-29 20:04:48|4|3/4|HAYIR|%43|%20|HAYIR|%22|%50|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%56|T•K|EVET|%56|%62|DONGU_TERS_YON|FRAGMENTARY_2
|BLOK_DUZ>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%73|3|HAYIR|%42|EVET|%56|3|HAYIR|%14|EVET|%31|3|HAYIR|%42|EVET|%77|1|EVET|%28|EVET|%31|3|HA
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 433 ve sonrası)

```
↳ YIR|%42|EVET|%45|3|HAYIR|%57|EVET|%70|3|HAYIR|%14|EVET|%36|3|HAYIR|%42|EVET|%33|3|HAYIR|%14|EVET|%33|3|HAYIR|%42|EVET|%46|3|HAYIR|%28|EVET|%5
↳ 3|3|HAYIR|%0|EVET|%27|3|HAYIR|%14|EVET|%48
434 433|2026-07-29 20:07:48|1|3/1|HAYIR|%43|%20|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%38|C•K|EVET|%56|%58|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%37|EVET|%38|1|HAYIR|%12|EVET|%28|3|HAYIR|%37|EVET|%82|2|HAYIR|%37|EVET|%34|3|HAYIR|%37|EV
↳ ET|%45|3|HAYIR|%50|EVET|%55|2|HAYIR|%12|EVET|%29|1|HAYIR|%37|EVET|%32|3|HAYIR|%12|EVET|%29|3|HAYIR|%37|EVET|%38|1|HAYIR|%25|EVET|%47|3|HAYIR|
↳ %0|EVET|%27|1|HAYIR|%12|EVET|%28
435 434|2026-07-29 20:07:54|4|4/2|HAYIR|%43|%20|HAYIR|%22|%49|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%37|T•B|EVET|%56|%56|VADI_YON|FRAGMENTARY_2|VADI>
↳ VADI>VADI||HAYIR|%64|4|HAYIR|%33|EVET|%37|3|HAYIR|%11|EVET|%29|4|HAYIR|%33|EVET|%49|4|HAYIR|%33|EVET|%43|2|HAYIR|%33|EVET|%42|2|HAYIR|%44|EVE
↳ T|%46|3|HAYIR|%11|EVET|%34|4|HAYIR|%33|EVET|%40|3|HAYIR|%11|EVET|%32|4|HAYIR|%33|EVET|%32|2|HAYIR|%22|EVET|%51|3|HAYIR|%0|EVET|%27|4|HAYIR|%1
↳ 1|EVET|%32
436 435|2026-07-29 20:08:31|1|1/3|EVET|%43|%20|HAYIR|%22|%45|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|%48|C•B|HAYIR|%56|%60|VADI_YON|FRAGMENTARY_2|VADI>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%65|1|EVET|%30|EVET|%48|1|EVET|%10|EVET|%26|1|EVET|%30|EVET|%100|1|EVET|%30|EVET|%32|1|EVET|%30|EVET|%
↳ 44|1|EVET|%40|EVET|%70|2|HAYIR|%10|EVET|%28|1|EVET|%30|EVET|%32|3|HAYIR|%10|EVET|%28|1|EVET|%30|EVET|%45|1|EVET|%20|EVET|%96|3|HAYIR|%0|EVET|
↳ %27|4|HAYIR|%10|EVET|%31
437 436|2026-07-29 20:09:34|1|3/1|HAYIR|%43|%20|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%38|C•B|EVET|%56|%57|DONGU_YON|FRAGMENTARY_2|DALGA
↳ _TEK_SIM_2>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%34|2|EVET|%36|EVET|%38|3|HAYIR|%18|EVET|%29|2|EVET|%36|EVET|%72|3|HAYIR|%36|EVET|%48|1|H
↳ AYIR|%36|EVET|%32|2|EVET|%45|EVET|%35|3|HAYIR|%9|EVET|%36|1|HAYIR|%36|EVET|%27|3|HAYIR|%9|EVET|%28|2|EVET|%36|EVET|%34|3|HAYIR|%27|EVET|%84|3
↳ |HAYIR|%0|EVET|%27|3|HAYIR|%9|EVET|%40
438 437|2026-07-29 20:10:58|2|3|HAYIR|%43|%20|HAYIR|%22|%77|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%55|T•B|HAYIR|%56|%59|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>TEPE>TEPE||HAYIR|%80|3|HAYIR|%41|EVET|%55|1|HAYIR|%16|EVET|%28|3|HAYIR|%41|EVET|%67|2|EVET|%33|EVET|%31|3|HAYIR|%33|EVET|%44|3|HAYIR|%50|
↳ EVET|%77|4|HAYIR|%8|EVET|%30|3|HAYIR|%33|EVET|%33|4|HAYIR|%8|EVET|%27|3|HAYIR|%41|EVET|%46|3|HAYIR|%25|EVET|%65|3|HAYIR|%0|EVET|%27|4|HAYIR|%
↳ 8|EVET|%36
439 438|2026-07-29 20:12:06|2|1/3|HAYIR|%43|%20|HAYIR|%22|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%40|C•B|EVET|%56|%58|DONGU_YON|FRAGMENTARY_2|BLOK
↳ _TERS>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%47|1|HAYIR|%38|EVET|%40|3|HAYIR|%15|EVET|%29|1|HAYIR|%38|EVET|%36|3|HAYIR|%38|EVET|%35|1|HAYIR|%30|
↳ EVET|%44|1|HAYIR|%46|EVET|%46|1|HAYIR|%7|EVET|%33|3|HAYIR|%30|EVET|%36|4|HAYIR|%7|EVET|%26|1|HAYIR|%38|EVET|%33|1|HAYIR|%23|EVET|%55|1|HAYIR|
↳ %0|EVET|%25|1|HAYIR|%7|EVET|%31
440 439|2026-07-29 20:13:28|2|3/1|EVET|%43|%20|HAYIR|%22|%36|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%33|T•B|EVET|%56|%57|DONGU_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_1>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%56|3|EVET|%35|EVET|%33|1|HAYIR|%14|EVET|%26|1|HAYIR|%35|EVET|%48|3|EVET|%35|EVET|%39|4|HA
↳ YIR|%28|EVET|%42|3|EVET|%42|EVET|%37|3|EVET|%7|EVET|%44|3|EVET|%28|EVET|%29|4|HAYIR|%7|EVET|%26|3|EVET|%35|EVET|%31|3|EVET|%21|EVET|%48|2|HAY
↳ IR|%0|EVET|%25|1|HAYIR|%7|EVET|%29
441 440|2026-07-29 20:14:23|3|1/4|HAYIR|%43|%20|HAYIR|%22|%58|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%45|T•K|EVET|%56|%54|DONGU_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>DONGU_TERS>DONGU||HAYIR|%71|1|HAYIR|%40|EVET|%45|2|HAYIR|%13|EVET|%27|1|HAYIR|%33|EVET|%43|4|HAYIR|%40|EVET|%28|1|HAYIR|%26|EVET|%43|1|H
↳ AYIR|%46|EVET|%61|4|HAYIR|%13|EVET|%31|1|HAYIR|%33|EVET|%27|2|HAYIR|%6|EVET|%26|1|HAYIR|%40|EVET|%35|4|HAYIR|%26|EVET|%40|2|HAYIR|%0|EVET|%25
↳ |1|HAYIR|%6|EVET|%34
442 441|2026-07-29 20:15:37|3|1/2|EVET|%43|%20|HAYIR|%22|%0|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%0|T•K|EVET|%56|%0|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%
↳ 0|EVET|%0|2|EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|EVET|%0|EVET|%0
443 442|2026-07-30 20:28:26|2|4/3|EVET|%43|%21|HAYIR|%22|%53|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%34|C•B|EVET|%56|%56|TEPE_YON|FRAGMENTARY_2|TEPE>VA
↳ DI>TEPE||HAYIR|%56|4|EVET|%0|EVET|%34|3|HAYIR|%0|EVET|%28|4|EVET|%0|EVET|%53|1|HAYIR|%0|EVET|%40|4|EVET|%0|EVET|%29|4|EVET|%0|EVET|%40|4|EVET
↳ |%0|EVET|%30|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%33|4|EVET|%0|EVET|%84|2|HAYIR|%0|EVET|%26|4|EVET|%0|EVET|%29
444 443|2026-07-30 20:28:28|4|1/3|EVET|%43|%21|HAYIR|%22|%41|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|%31|C•B|HAYIR|%56|%52|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
↳ |VADI>VADI>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%55|1|EVET|%0|EVET|%31|1|EVET|%0|EVET|%27|3|HAYIR|%0|EVET|%33|1|EVET|%0|EVET|%51|1|EVET|%0|EVET|%3
↳ 0|1|EVET|%0|EVET|%42|3|HAYIR|%0|EVET|%33|4|HAYIR|%0|EVET|%27|3|HAYIR|%0|EVET|%30|1|EVET|%0|EVET|%31|1|EVET|%0|EVET|%52|2|HAYIR|%0|EVET|%26|1|
↳ EVET|%0|EVET|%28
445 444|2026-07-30 20:28:30|1|1/3|HAYIR|%43|%21|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%31|T•B|EVET|%56|%53|TEPE_YON|FRAGMENTARY_2|VADI>
↳ DONGU>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%36|1|HAYIR|%0|EVET|%31|4|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%45|1|HAYIR|%0|EVET|%36|3|HAY
↳ IR|%0|EVET|%32|2|HAYIR|%0|EVET|%38|2|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%27|3|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%50|2|HAYI
↳ R|%0|EVET|%26|1|HAYIR|%0|EVET|%33
446 445|2026-07-30 20:28:32|4|4/2|HAYIR|%43|%21|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%32|C•B|HAYIR|%56|%58|VADI_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>VADI|PATTERN_BREAK:0,59|EVET|%55|4|HAYIR|%0|EVET|%32|1|EVET|%0|EVET|%27|4|HAYIR|%0|EVET|%37|1|EVET|%0|EVET|%40|3|HAYIR|%0|EVET|%27|4|HA
↳ YIR|%0|EVET|%32|3|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%41|3|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%29|4|HAYIR|%0|EVET|%64|3|HAYIR|%0|EVET|%27|3|HAY
↳ IR|%0|EVET|%28
447 446|2026-07-30 20:28:34|1|1|EVET|%43|%21|HAYIR|%22|%66|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|%59|T•B|EVET|%56|%52|TEPE_YON|FRAGMENTARY_2|BLOK_TERS
↳ >DONGU>TEPE||HAYIR|%76|1|EVET|%40|EVET|%59|3|HAYIR|%60|EVET|%28|1|EVET|%20|EVET|%100|1|EVET|%40|EVET|%49|1|EVET|%40|EVET|%44|1|EVET|%40|EVET|
↳ %85|4|HAYIR|%40|EVET|%29|1|EVET|%0|EVET|%28|1|EVET|%20|EVET|%26|1|EVET|%40|EVET|%47|1|EVET|%40|EVET|%99|3|HAYIR|%0|EVET|%27|1|EVET|%60|EVET|%
↳ 30
448 447|2026-07-30 20:28:36|1|2/3|HAYIR|%43|%21|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%53|C•B|HAYIR|%56|%52|BLOK_TERS_TEKRAR|FRAGMENTAR
↳ Y_2|VADI>DONGU>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%42|2|HAYIR|%50|EVET|%53|1|EVET|%50|EVET|%29|2|HAYIR|%33|EVET|%87|3|HAYIR|
↳ %50|EVET|%43|2|HAYIR|%50|EVET|%43|2|HAYIR|%50|EVET|%65|3|HAYIR|%33|EVET|%32|2|HAYIR|%16|EVET|%32|1|EVET|%33|EVET|%28|2|HAYIR|%50|EVET|%47|2|H
↳ AYIR|%50|EVET|%96|3|HAYIR|%0|EVET|%27|3|HAYIR|%66|EVET|%38
449 448|2026-07-30 20:28:38|1|3/4|HAYIR|%43|%21|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%41|T•B|EVET|%56|%54|DONGU_YON|FRAGMENTARY_2|VADI
↳ >DONGU>DONGU|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%37|3|HAYIR|%42|EVET|%41|4|HAYIR|%57|EVET|%29|2|HAYIR|%28|EVET|%43|3|HAYIR|%42|EVET|%4
↳ 5|4|HAYIR|%42|EVET|%42|4|HAYIR|%42|EVET|%39|3|HAYIR|%28|EVET|%31|3|HAYIR|%14|EVET|%32|1|EVET|%42|EVET|%29|3|HAYIR|%42|EVET|%29|3|HAYIR|%42|EV
↳ ET|%79|3|HAYIR|%0|EVET|%27|3|HAYIR|%57|EVET|%36
450 449|2026-07-30 20:28:41|1|2/3|HAYIR|%43|%21|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%44|T•B|EVET|%56|%53|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%42|3|HAYIR|%37|EVET|%44|1|EVET|%50|EVET|%29|2|HAYIR|%25|EVET|%39|3|HAYIR|%37|EVET|%43|3|HAYIR|%37|EVET|%30
↳ |3|HAYIR|%37|EVET|%45|4|HAYIR|%25|EVET|%29|1|EVET|%12|EVET|%31|1|EVET|%50|EVET|%30|3|HAYIR|%37|EVET|%30|1|EVET|%37|EVET|%25|3|HAYIR|%0|EVET|%
↳ 26|3|HAYIR|%50|EVET|%34
451 450|2026-07-30 20:28:43|1|1/3|HAYIR|%43|%21|HAYIR|%21|%48|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%43|T•B|HAYIR|%56|%53|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>TEPE>DONGU||HAYIR|%58|3|HAYIR|%33|EVET|%43|4|HAYIR|%55|EVET|%29|1|HAYIR|%22|EVET|%43|3|HAYIR|%33|EVET|%39|3|HAYIR|%33|EVET|%30|3|HAYIR|%33|
↳ EVET|%45|2|EVET|%22|EVET|%30|1|HAYIR|%22|EVET|%33|1|HAYIR|%55|EVET|%31|3|HAYIR|%33|EVET|%29|1|HAYIR|%44|EVET|%34|3|HAYIR|%0|EVET|%26|1|HAYIR|
↳ %44|EVET|%34
452 451|2026-07-30 20:28:47|2|3/2|EVET|%43|%21|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%34|C•B|EVET|%56|%50|DONGU_YON|FRAGMENTARY_2|DONGU>
↳ BLOK_DUZ>DONGU|PATTERN_BREAK:0,59|EVET|%26|3|EVET|%30|EVET|%34|1|HAYIR|%50|EVET|%28|2|HAYIR|%20|EVET|%40|3|EVET|%30|EVET|%33|1|HAYIR|%30|EVET
↳ |%34|3|EVET|%30|EVET|%33|4|HAYIR|%30|EVET|%31|3|EVET|%20|EVET|%29|4|HAYIR|%50|EVET|%27|3|EVET|%30|EVET|%27|3|EVET|%40|EVET|%93|3|EVET|%0|EVET
↳ |%26|4|HAYIR|%40|EVET|%35
453 452|2026-07-30 20:28:50|3|1/4|HAYIR|%43|%21|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%38|C•K|HAYIR|%56|%54|VADI_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>VADI|PATTERN_BREAK:0,59|EVET|%44|1|HAYIR|%36|EVET|%38|4|HAYIR|%45|EVET|%29|2|HAYIR|%18|EVET|%51|2|HAYIR|%36|EVET|%33|1|HAYIR|%27|EVET|%
↳ 38|1|HAYIR|%36|EVET|%55|4|HAYIR|%27|EVET|%31|1|HAYIR|%27|EVET|%38|2|HAYIR|%45|EVET|%28|1|HAYIR|%36|EVET|%31|1|HAYIR|%45|EVET|%76|2|HAYIR|%9|E
↳ VET|%26|1|HAYIR|%36|EVET|%31
454 453|2026-07-30 20:28:53|3|1/2|EVET|%43|%21|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%47|C•K|EVET|%56|%54|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
↳ |VADI>VADI>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%37|2|HAYIR|%33|EVET|%47|1|EVET|%41|EVET|%34|3|HAYIR|%16|EVET|%38|4|HAYIR|%33|EVET|%31|1|EVET|%25|
↳ EVET|%29|2|HAYIR|%33|EVET|%34|2|HAYIR|%25|EVET|%36|1|EVET|%25|EVET|%39|2|HAYIR|%41|EVET|%27|2|HAYIR|%33|EVET|%31|1|EVET|%41|EVET|%81|2|HAYIR|
↳ %8|EVET|%26|2|HAYIR|%33|EVET|%34
455 454|2026-07-30 20:29:09|1|2/1|HAYIR|%43|%21|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%45|C•B|EVET|%57|%52|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>TEPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%28|2|HAYIR|%30|EVET|%45|3|EVET|%46|EVET|%28|4|HAYIR|%15|EVET|%67|4|HAYIR|%30|EVET|%3
↳ 3|2|HAYIR|%30|EVET|%42|2|HAYIR|%30|EVET|%60|4|HAYIR|%23|EVET|%28|1|HAYIR|%30|EVET|%30|1|HAYIR|%38|EVET|%31|2|HAYIR|%30|EVET|%34|2|HAYIR|%46|E
↳ VET|%94|1|HAYIR|%7|EVET|%26|2|HAYIR|%30|EVET|%35
456 455|2026-07-30 20:29:13|3|1/4|HAYIR|%43|%21|EVET|%21|%34|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%44|T•B|EVET|%57|%51|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|
↳ BLOK_DUZ>BLOK_TERS>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%49|4|EVET|%28|EVET|%44|1|HAYIR|%50|EVET|%48|4|EVET|%14|EVET|%53|4|EVET|%28|EVET|%35|3|HAY
↳ IR|%28|EVET|%44|4|EVET|%28|EVET|%42|4|EVET|%21|EVET|%30|1|HAYIR|%28|EVET|%33|2|HAYIR|%35|EVET|%27|4|EVET|%28|EVET|%30|4|EVET|%42|EVET|%99|2|H
↳ AYIR|%7|EVET|%26|4|EVET|%28|EVET|%32
457 456|2026-07-30 20:29:24|4|3/1|HAYIR|%43|%21|HAYIR|%21|%63|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%47|T•B|EVET|%57|%54|BLOK_DUZ_TEKRAR|FRAGMENTARY_
↳ 2|BLOK_DUZ>DONGU>BLOK_DUZ||HAYIR|%64|3|HAYIR|%33|EVET|%47|1|HAYIR|%46|EVET|%33|3|HAYIR|%20|EVET|%52|4|EVET|%33|EVET|%29|3|HAYIR|%26|EVET|%38|
↳ 3|HAYIR|%33|EVET|%60|3|HAYIR|%26|EVET|%31|3|HAYIR|%26|EVET|%36|3|HAYIR|%33|EVET|%29|3|HAYIR|%33|EVET|%39|3|HAYIR|%46|EVET|%93|2|HAYIR|%6|EVET
↳ |%26|3|HAYIR|%33|EVET|%35
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 458 ve sonrası)

```
458 457|2026-07-30 20:29:27|4|4/1|HAYIR|%43|%21|EVET|%22|%25|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%35|C•K|EVET|%57|%52|DONGU_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>TEPE>DONGU|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%26|3|HAYIR|%31|EVET|%35|1|EVET|%43|EVET|%30|4|HAYIR|%18|EVET|%32|3|HAYIR|%37|EVET|%
↳ 29|4|HAYIR|%25|EVET|%29|3|HAYIR|%31|EVET|%36|1|EVET|%25|EVET|%29|1|EVET|%25|EVET|%33|3|HAYIR|%31|EVET|%29|3|HAYIR|%31|EVET|%30|4|HAYIR|%43|EV
↳ ET|%61|2|HAYIR|%6|EVET|%26|3|HAYIR|%31|EVET|%34
459 458|2026-07-30 20:29:31|1|3/2|HAYIR|%43|%21|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%35|T•B|EVET|%57|%55|DONGU_YON|FRAGMENTARY_2|DALG
↳ A_TEK_SIM_1>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%43|1|HAYIR|%29|EVET|%35|3|HAYIR|%47|EVET|%28|4|EVET|%17|EVET|%44|1|HAYIR|%35|EVET|%30|3|HAYI
↳ R|%23|EVET|%29|3|HAYIR|%29|EVET|%29|4|EVET|%29|EVET|%28|1|HAYIR|%29|EVET|%31|1|HAYIR|%29|EVET|%30|4|EVET|%29|EVET|%27|3|HAYIR|%41|EVET|%39|3|
↳ HAYIR|%5|EVET|%27|1|HAYIR|%29|EVET|%35
460 459|2026-07-30 20:29:35|4|1/4|HAYIR|%43|%21|EVET|%22|%30|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%38|C•B|EVET|%57|%54|DONGU_YON|FRAGMENTARY_2|VADI>D
↳ ONGU>DONGU|PATTERN_BREAK:0,59|EVET|%41|4|EVET|%27|EVET|%38|1|HAYIR|%44|EVET|%33|4|EVET|%22|EVET|%47|1|HAYIR|%33|EVET|%34|4|EVET|%22|EVET|%42|
↳ 4|EVET|%27|EVET|%58|1|HAYIR|%33|EVET|%31|4|EVET|%27|EVET|%38|3|HAYIR|%27|EVET|%28|4|EVET|%33|EVET|%33|4|EVET|%38|EVET|%57|3|HAYIR|%5|EVET|%27
↳ |3|HAYIR|%27|EVET|%25
461 460|2026-07-30 20:29:37|4|3/1|EVET|%43|%21|HAYIR|%22|%0|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%0|T•K|EVET|%57|%0|DONGU_YON|FRAGMENTARY_2|TEPE>VADI
↳ >DONGU|PATTERN_BREAK:0,59|EVET|%0|3|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%
↳ 0|1|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0
462 461|2026-07-30 20:29:45|3|1/4|HAYIR|%43|%21|HAYIR|%22|%48|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%50|T•K|EVET|%57|%56|TEPE_YON|FRAGMENTARY_2|DONGU
↳ _TERS>BLOK_DUZ>TEPE|PATTERN_BREAK:0,59|EVET|%72|1|HAYIR|%0|EVET|%50|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%75|3|HAYIR|%0|EVET|%39|1|HAYIR|%0|EV
↳ ET|%45|1|HAYIR|%0|EVET|%77|4|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%35|2|EVET|%0|EVET|%26|1|HAYIR|%0|EVET|%43|1|HAYIR|%0|EVET|%88|3|HAYIR|%0|EVET
↳ |%26|2|EVET|%0|EVET|%25
463 462|2026-07-30 20:29:48|2|4/3|EVET|%43|%21|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%30|C•B|EVET|%57|%55|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%45|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%44|3|H
↳ AYIR|%0|EVET|%46|4|EVET|%0|EVET|%31|4|EVET|%0|EVET|%38|3|HAYIR|%0|EVET|%27|3|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%38|3|HAYIR|%0|EVET|%26|4|EVET
↳ |%0|EVET|%32
464 463|2026-07-30 20:29:51|4|1/4|HAYIR|%43|%21|HAYIR|%21|%54|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%34|T•B|EVET|%57|%56|VADI_YON|FRAGMENTARY_2|TEPE>
↳ BLOK_DUZ>VADI||HAYIR|%60|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%51|2|HAYIR|%0|EVET|%41|2|HAYIR|%0|EVET|
↳ %44|3|EVET|%0|EVET|%30|4|HAYIR|%0|EVET|%36|3|EVET|%0|EVET|%27|1|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%60|2|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%32
465 464|2026-07-30 20:29:54|3|4/1|HAYIR|%43|%21|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%26|%31|T•B|HAYIR|%57|%51|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>BLOK_DUZ>VADI|PATTERN_BREAK:0,59|EVET|%39|2|EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%44|3|HAYIR|%0|EVET|%48|3|HAYIR|%0|EVET|%42|4|HAYIR|%0|EVET
↳ |%31|2|EVET|%0|EVET|%37|4|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%30|2|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%27|2|EVET|%0|EVET|%51|2|EVET|%0|EVET|%26|
↳ 2|EVET|%0|EVET|%29
466 465|2026-07-30 20:29:57|2|4/1|HAYIR|%43|%21|HAYIR|%21|%40|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%39|C•B|EVET|%57|%56|TEPE_YON|FRAGMENTARY_2|TEKRA
↳ R>DONGU>TEPE||HAYIR|%45|4|HAYIR|%40|EVET|%39|1|HAYIR|%0|EVET|%32|4|HAYIR|%20|EVET|%36|3|HAYIR|%20|EVET|%33|4|HAYIR|%20|EVET|%43|4|HAYIR|%40|E
↳ VET|%41|4|HAYIR|%40|EVET|%33|1|HAYIR|%40|EVET|%32|4|HAYIR|%80|EVET|%28|4|HAYIR|%20|EVET|%33|3|HAYIR|%40|EVET|%36|2|EVET|%40|EVET|%26|4|HAYIR|
↳ %80|EVET|%35
467 466|2026-07-30 20:30:00|2|3/4|HAYIR|%43|%21|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%26|%27|T•K|EVET|%58|%55|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEKRAR>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%47|1|EVET|%33|EVET|%27|3|HAYIR|%0|EVET|%28|4|HAYIR|%16|EVET|%47|3|HAYIR|%16|EVET|%37|2|HAYIR
↳ |%16|EVET|%42|2|HAYIR|%33|EVET|%33|1|EVET|%33|EVET|%31|3|HAYIR|%33|EVET|%29|4|HAYIR|%66|EVET|%27|4|HAYIR|%16|EVET|%27|4|HAYIR|%33|EVET|%41|2|
↳ HAYIR|%50|EVET|%26|3|HAYIR|%66|EVET|%29
468 467|2026-07-30 20:30:03|1|1/2|EVET|%43|%21|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%38|C•K|EVET|%58|%52|BLOK_TERS_TEKRAR|FRAGMENTARY_
↳ 2|BLOK_DUZ>DONGU>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%42|EVET|%38|1|EVET|%0|EVET|%34|3|HAYIR|%14|EVET|%49|3|HAYIR
↳ |%14|EVET|%35|2|HAYIR|%14|EVET|%42|2|HAYIR|%28|EVET|%61|4|HAYIR|%42|EVET|%29|1|EVET|%28|EVET|%27|1|EVET|%57|EVET|%30|2|HAYIR|%14|EVET|%33|2|H
↳ AYIR|%28|EVET|%65|2|HAYIR|%42|EVET|%26|1|EVET|%57|EVET|%36
469 468|2026-07-30 20:30:06|1|1/3|HAYIR|%43|%21|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%37|T•B|EVET|%58|%54|VADI_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>DONGU>VADI|REGIME_SHIFT:0,75|EVET|%42|3|HAYIR|%37|EVET|%37|3|HAYIR|%12|EVET|%28|3|HAYIR|%12|EVET|%45|2|HAYIR|%12|EVET|%37|3|HAYIR|%12|EVE
↳ T|%31|3|HAYIR|%25|EVET|%45|3|HAYIR|%37|EVET|%32|1|HAYIR|%37|EVET|%30|1|HAYIR|%62|EVET|%31|3|HAYIR|%12|EVET|%33|3|HAYIR|%25|EVET|%85|2|HAYIR|%
↳ 37|EVET|%26|1|HAYIR|%62|EVET|%32
470 469|2026-07-30 20:30:11|4|3/1|EVET|%43|%21|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%31|T•B|EVET|%58|%54|TEPE_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%31|4|HAYIR|%33|EVET|%31|1|HAYIR|%11|EVET|%33|3|EVET|%11|EVET|%56|2|HAYIR|%11|EVET|%34|3|EVET|%11|EVET|%
↳ 43|3|EVET|%22|EVET|%45|3|EVET|%33|EVET|%32|1|HAYIR|%33|EVET|%28|3|EVET|%55|EVET|%28|3|EVET|%11|EVET|%33|3|EVET|%22|EVET|%59|3|EVET|%33|EVET|%
↳ 26|4|HAYIR|%55|EVET|%30
471 470|2026-07-30 20:30:21|3|2/4|HAYIR|%43|%21|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%32|T•K|EVET|%58|%56|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|TEPE>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%63|2|HAYIR|%30|EVET|%32|3|HAYIR|%10|EVET|%28|3|HAYIR|%20|EVET|%47|3|HAYIR|%
↳ 10|EVET|%45|3|HAYIR|%20|EVET|%44|3|HAYIR|%30|EVET|%47|4|HAYIR|%40|EVET|%31|2|HAYIR|%30|EVET|%26|2|HAYIR|%60|EVET|%29|3|HAYIR|%20|EVET|%34|2|H
↳ AYIR|%30|EVET|%75|3|HAYIR|%40|EVET|%26|2|HAYIR|%50|EVET|%32
472 471|2026-07-30 20:30:25|1|4/3|EVET|%43|%21|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%34|C•B|EVET|%58|%56|BLOK_TERS_TEKRAR|FRAGMENTARY_
↳ 2|VADI>VADI>BLOK_TERS|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%27|EVET|%34|1|HAYIR|%9|EVET|%35|1|HAYIR|%18|EVET|%31|4|EVET|%9|EVET|%40|4|EVET|%18
↳ |EVET|%42|2|HAYIR|%27|EVET|%34|4|EVET|%36|EVET|%30|1|HAYIR|%27|EVET|%35|1|HAYIR|%54|EVET|%30|4|EVET|%18|EVET|%27|1|HAYIR|%27|EVET|%48|3|HAYIR
↳ |%36|EVET|%26|2|HAYIR|%45|EVET|%32
473 472|2026-07-30 20:30:38|4|3/4|HAYIR|%43|%21|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%42|C•B|HAYIR|%58|%56|VADI_YON|FRAGMENTARY_2|VADI
↳ >VADI>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%25|EVET|%42|4|HAYIR|%8|EVET|%29|4|HAYIR|%16|EVET|%60|4|HAYIR|%16|EVET|%42|4
↳ |HAYIR|%25|EVET|%43|4|HAYIR|%25|EVET|%57|3|HAYIR|%41|EVET|%33|4|HAYIR|%25|EVET|%47|3|HAYIR|%50|EVET|%29|4|HAYIR|%25|EVET|%38|3|HAYIR|%25|EVET
↳ |%58|3|HAYIR|%33|EVET|%26|3|HAYIR|%41|EVET|%29
474 473|2026-07-30 20:30:40|1|1/4|HAYIR|%43|%21|EVET|%21|%46|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%51|C•B|EVET|%58|%54|VADI_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%71|1|HAYIR|%23|EVET|%51|1|HAYIR|%7|EVET|%32|1|HAYIR|%15|EVET|%100|1|HAYIR|%15|EVET|%49|1|HAYIR|%23|EVET
↳ |%46|1|HAYIR|%23|EVET|%73|4|EVET|%38|EVET|%31|1|HAYIR|%23|EVET|%35|1|HAYIR|%46|EVET|%30|1|HAYIR|%23|EVET|%47|1|HAYIR|%23|EVET|%99|3|HAYIR|%30
↳ |EVET|%26|1|HAYIR|%38|EVET|%33
475 474|2026-07-30 20:30:42|4|4/1|EVET|%43|%21|HAYIR|%21|%46|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%33|T•K|HAYIR|%58|%55|TEPE_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU_TERS>TEPE||HAYIR|%57|4|EVET|%21|EVET|%33|4|EVET|%7|EVET|%29|4|EVET|%14|EVET|%44|1|HAYIR|%14|EVET|%46|4|EVET|%21|EVET|%28|4|EVET|%21|EVET
↳ |%35|3|HAYIR|%42|EVET|%32|4|EVET|%21|EVET|%43|3|HAYIR|%42|EVET|%29|4|EVET|%21|EVET|%30|4|EVET|%21|EVET|%68|3|HAYIR|%28|EVET|%26|3|HAYIR|%35|E
↳ VET|%27
476 475|2026-07-30 20:30:44|4|3/1|HAYIR|%43|%21|EVET|%21|%44|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%58|T•B|EVET|%58|%60|TEPE_YON|FRAGMENTARY_2|VADI>B
↳ LOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%65|3|HAYIR|%26|EVET|%58|1|EVET|%13|EVET|%28|3|HAYIR|%20|EVET|%88|4|HAYIR|%13|EVET|%42|3|HAYIR|%26|EVET
↳ |%42|3|HAYIR|%26|EVET|%72|1|EVET|%40|EVET|%31|3|HAYIR|%26|EVET|%34|3|HAYIR|%40|EVET|%28|3|HAYIR|%26|EVET|%47|3|HAYIR|%26|EVET|%93|3|HAYIR|%26
↳ |EVET|%26|3|HAYIR|%33|EVET|%30
477 476|2026-07-30 20:30:47|1|4/1|HAYIR|%43|%21|HAYIR|%21|%40|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%39|T•B|EVET|%58|%53|DONGU_YON|FRAGMENTARY_2|VADI
↳ >VADI>DONGU|PATTERN_BREAK:0,59|EVET|%67|4|HAYIR|%25|EVET|%39|4|HAYIR|%18|EVET|%29|4|HAYIR|%18|EVET|%51|3|EVET|%12|EVET|%41|3|EVET|%25|EVET|%4
↳ 2|3|EVET|%25|EVET|%42|4|HAYIR|%43|EVET|%34|4|HAYIR|%25|EVET|%37|1|HAYIR|%37|EVET|%29|4|HAYIR|%25|EVET|%30|4|HAYIR|%25|EVET|%38|1|HAYIR|%25|EV
↳ ET|%26|4|HAYIR|%31|EVET|%34
478 477|2026-07-30 20:30:50|3|4/2|HAYIR|%43|%21|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%50|C•K|EVET|%58|%55|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%65|4|HAYIR|%23|EVET|%50|1|EVET|%17|EVET|%30|4|HAYIR|%17|EVET|%72|3|HAYIR|%17|EVET|%30|4|HAYIR|%29|EVET|%31
↳ |4|HAYIR|%29|EVET|%47|4|HAYIR|%41|EVET|%31|4|HAYIR|%23|EVET|%39|2|HAYIR|%35|EVET|%28|4|HAYIR|%23|EVET|%36|4|HAYIR|%23|EVET|%78|1|EVET|%23|EVE
↳ T|%26|4|HAYIR|%29|EVET|%35
479 478|2026-07-30 20:30:53|1|3/1|HAYIR|%43|%21|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%32|T•B|HAYIR|%58|%52|DONGU_TERS_YON|FRAGMENTARY_
↳ 2|BLOK_TERS>BLOK_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|3|HAYIR|%22|EVET|%32|3|HAYIR|%22|EVET|%29|3|HAYIR|%16|EVET|%40|4|HAYIR|%16|EVET|
↳ %45|3|HAYIR|%27|EVET|%36|3|HAYIR|%27|EVET|%37|4|HAYIR|%38|EVET|%33|4|HAYIR|%22|EVET|%33|1|HAYIR|%33|EVET|%29|3|HAYIR|%22|EVET|%30|3|HAYIR|%22
↳ |EVET|%95|1|HAYIR|%27|EVET|%26|2|EVET|%27|EVET|%30
480 479|2026-07-30 20:30:57|2|4/1|HAYIR|%43|%21|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%40|T•B|HAYIR|%58|%57|DONGU_TERS_YON|FRAGMENTARY_
↳ 2|VADI>BLOK_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%21|EVET|%40|1|HAYIR|%21|EVET|%31|4|HAYIR|%15|EVET|%60|2|EVET|%15|EVET|%34|4|
↳ HAYIR|%26|EVET|%31|4|HAYIR|%26|EVET|%44|4|HAYIR|%36|EVET|%33|4|HAYIR|%21|EVET|%36|4|HAYIR|%31|EVET|%27|4|HAYIR|%21|EVET|%34|4|HAYIR|%21|EVET|
↳ %79|1|HAYIR|%26|EVET|%26|3|HAYIR|%31|EVET|%33
481 480|2026-07-30 20:30:58|2|2/3|HAYIR|%43|%21|EVET|%21|%28|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%32|T•K|EVET|%58|%52|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%30|1|HAYIR|%20|EVET|%32|4|HAYIR|%20|EVET|%29|2|HAYIR|%15|EVET|%27|1|HAYIR|%20|EVET|%35|3|EVET|%25|EVET|%30
↳ |1|HAYIR|%25|EVET|%33|1|HAYIR|%35|EVET|%36|3|EVET|%20|EVET|%32|4|HAYIR|%30|EVET|%27|1|HAYIR|%20|EVET|%29|2|HAYIR|%20|EVET|%76|1|HAYIR|%25|EVE
↳ T|%26|1|HAYIR|%30|EVET|%31
482 481|2026-07-30 20:31:03|3|2/1|HAYIR|%43|%21|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%31|C•K|EVET|%58|%54|VADI_YON|FRAGMENTARY_2|TEPE>
↳ VADI>VADI|PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%19|EVET|%31|1|HAYIR|%19|EVET|%31|4|EVET|%14|EVET|%37|1|HAYIR|%19|EVET|%29|2|HAYIR|%28|EVET|%41
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 482 ve sonrası)

```
↳ |2|HAYIR|%23|EVET|%30|4|EVET|%33|EVET|%30|1|HAYIR|%23|EVET|%33|2|HAYIR|%28|EVET|%28|1|HAYIR|%19|EVET|%28|4|EVET|%19|EVET|%55|1|HAYIR|%23|EVET
↳ |%26|1|HAYIR|%28|EVET|%30
483 482|2026-07-30 20:31:05|4|3/1|HAYIR|%43|%21|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%47|C•K|EVET|%58|%54|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%64|3|HAYIR|%18|EVET|%47|3|HAYIR|%18|EVET|%29|3|HAYIR|%18|EVET|%40|1|HAYIR|%18|EVET|%36|3|HAYIR|%27|EV
↳ ET|%34|3|HAYIR|%22|EVET|%50|3|HAYIR|%36|EVET|%31|1|HAYIR|%22|EVET|%31|3|HAYIR|%27|EVET|%28|3|HAYIR|%18|EVET|%32|3|HAYIR|%22|EVET|%91|3|HAYIR|
↳ %22|EVET|%26|3|HAYIR|%27|EVET|%33
484 483|2026-07-30 20:31:06|2|3/1|EVET|%43|%21|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%30|T•B|EVET|%58|%62|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%38|1|HAYIR|%17|EVET|%30|1|HAYIR|%17|EVET|%32|3|EVET|%17|EVET|%64|1|HAYIR|%17|EVET|%37|1|HAYIR|%26|EVET
↳ |%26|2|HAYIR|%21|EVET|%32|4|HAYIR|%34|EVET|%32|1|HAYIR|%21|EVET|%36|3|EVET|%26|EVET|%27|3|EVET|%17|EVET|%28|3|EVET|%21|EVET|%39|3|EVET|%21|EV
↳ ET|%26|2|HAYIR|%26|EVET|%28
485 484|2026-07-30 20:31:08|3|1/4|EVET|%43|%21|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|%41|T•K|EVET|%58|%53|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%39|1|EVET|%16|EVET|%41|4|HAYIR|%16|EVET|%27|1|EVET|%20|EVET|%72|1|EVET|%16|EVET|%32|1|EVET|%25|EVET|%3
↳ 7|1|EVET|%20|EVET|%53|4|HAYIR|%33|EVET|%31|4|HAYIR|%20|EVET|%41|2|HAYIR|%29|EVET|%27|1|EVET|%20|EVET|%37|1|EVET|%25|EVET|%99|3|HAYIR|%25|EVET
↳ |%26|1|EVET|%25|EVET|%28
486 485|2026-07-30 20:31:10|1|2/3|HAYIR|%43|%21|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%32|C•B|HAYIR|%58|%54|TEPE_YON|FRAGMENTARY_2|VADI
↳ >VADI>TEPE|PATTERN_BREAK:0,59|EVET|%45|2|HAYIR|%20|EVET|%32|1|EVET|%16|EVET|%31|2|HAYIR|%24|EVET|%38|4|HAYIR|%20|EVET|%35|1|EVET|%28|EVET|%33
↳ |1|EVET|%24|EVET|%33|4|HAYIR|%32|EVET|%31|1|EVET|%20|EVET|%30|1|EVET|%28|EVET|%28|3|HAYIR|%24|EVET|%26|2|HAYIR|%28|EVET|%79|3|HAYIR|%24|EVET|
↳ %26|2|HAYIR|%28|EVET|%33
487 486|2026-07-30 20:31:11|1|3/1|HAYIR|%43|%21|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%39|C•K|EVET|%58|%52|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%34|3|HAYIR|%19|EVET|%39|4|EVET|%19|EVET|%29|3|HAYIR|%23|EVET|%42|3|HAYIR|%19|EVET|%34|1|HAYIR|%30|EV
↳ ET|%47|1|HAYIR|%26|EVET|%54|3|HAYIR|%30|EVET|%29|1|HAYIR|%23|EVET|%28|1|HAYIR|%30|EVET|%29|3|HAYIR|%23|EVET|%30|3|HAYIR|%26|EVET|%96|3|HAYIR|
↳ %23|EVET|%26|1|HAYIR|%26|EVET|%30
488 487|2026-07-30 20:31:30|4|3/1|EVET|%43|%21|HAYIR|%21|%58|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%31|T•B|EVET|%58|%54|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU_TERS>TEPE||HAYIR|%59|3|EVET|%18|EVET|%31|1|HAYIR|%22|EVET|%30|3|EVET|%22|EVET|%80|4|HAYIR|%18|EVET|%33|3|EVET|%29|EVET|%36|3|EVET|%25|EVE
↳ T|%54|3|EVET|%29|EVET|%30|1|HAYIR|%22|EVET|%35|3|EVET|%29|EVET|%27|3|EVET|%22|EVET|%37|3|EVET|%25|EVET|%72|3|EVET|%22|EVET|%26|4|HAYIR|%25|EV
↳ ET|%30
489 488|2026-07-30 20:31:36|3|2/1|EVET|%43|%22|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%33|C•K|EVET|%58|%54|TEPE_YON|FRAGMENTARY_2|VADI>T
↳ EPE>TEPE|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%21|EVET|%33|4|HAYIR|%21|EVET|%30|1|HAYIR|%25|EVET|%66|3|HAYIR|%17|EVET|%40|3|HAYIR|%32|EVET|%35
↳ |3|HAYIR|%28|EVET|%46|4|HAYIR|%32|EVET|%30|1|HAYIR|%21|EVET|%37|2|EVET|%32|EVET|%27|1|HAYIR|%25|EVET|%31|2|EVET|%28|EVET|%71|3|HAYIR|%25|EVET
↳ |%26|2|EVET|%25|EVET|%30
490 489|2026-07-30 20:31:40|2|2/3|HAYIR|%43|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%38|T•B|EVET|%59|%58|DONGU_YON|FRAGMENTARY_2|DONG
↳ U>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%44|2|HAYIR|%20|EVET|%38|1|EVET|%20|EVET|%30|2|HAYIR|%24|EVET|%46|1|EVET|%17|EVET|%26|2|HAYIR|%31|EVET|%
↳ 41|2|HAYIR|%27|EVET|%54|4|HAYIR|%31|EVET|%31|4|HAYIR|%20|EVET|%31|3|HAYIR|%34|EVET|%28|2|HAYIR|%24|EVET|%33|2|HAYIR|%31|EVET|%34|1|EVET|%24|E
↳ VET|%26|4|HAYIR|%27|EVET|%32
491 490|2026-07-30 20:31:47|1|2/4|EVET|%43|%22|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|T•K|EVET|%59|%52|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%20|EVET|%36|4|HAYIR|%23|EVET|%29|2|EVET|%23|EVET|%31|3|HAYIR|%20|EVET|%37|1|HAYIR|%30|EVET|%34
↳ |1|HAYIR|%26|EVET|%47|4|HAYIR|%30|EVET|%31|4|HAYIR|%20|EVET|%43|1|HAYIR|%33|EVET|%29|1|HAYIR|%23|EVET|%28|2|EVET|%30|EVET|%75|1|HAYIR|%26|EVE
↳ T|%26|1|HAYIR|%26|EVET|%39
492 491|2026-07-30 20:31:56|2|3/1|EVET|%43|%22|HAYIR|%21|%43|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%53|T•B|EVET|%59|%55|VADI_YON|FRAGMENTARY_2|VADI>TE
↳ PE>VADI|PATTERN_BREAK:0,59|EVET|%56|3|EVET|%19|EVET|%53|1|HAYIR|%22|EVET|%32|3|EVET|%25|EVET|%54|3|EVET|%19|EVET|%34|3|EVET|%29|EVET|%42|3|EV
↳ ET|%25|EVET|%77|4|HAYIR|%29|EVET|%30|4|HAYIR|%19|EVET|%30|3|EVET|%32|EVET|%27|3|EVET|%22|EVET|%40|3|EVET|%32|EVET|%99|1|HAYIR|%25|EVET|%26|3|
↳ EVET|%25|EVET|%31
493 492|2026-07-30 20:32:02|3|1/2|HAYIR|%43|%22|EVET|%21|%46|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%47|C•K|EVET|%59|%56|TEPE_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_3>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%58|1|HAYIR|%21|EVET|%47|3|HAYIR|%21|EVET|%28|1|HAYIR|%28|EVET|%41|3|HAYIR|%21|EVET|%28|1|HAYIR|%
↳ 31|EVET|%46|1|HAYIR|%28|EVET|%63|4|HAYIR|%28|EVET|%29|2|EVET|%18|EVET|%27|2|EVET|%34|EVET|%28|1|HAYIR|%25|EVET|%36|1|HAYIR|%34|EVET|%76|1|HAY
↳ IR|%25|EVET|%26|1|HAYIR|%28|EVET|%32
494 493|2026-07-30 20:32:08|2|1/4|HAYIR|%43|%22|EVET|%21|%27|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%30|T•K|HAYIR|%59|%60|ZIGZAK_KOM_SALINIMM|FRAGMENTA
↳ RY_2|VADI>TEPE>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%33|4|EVET|%21|EVET|%30|1|HAYIR|%21|EVET|%35|3|HAYIR|%27|EVET|%29|4|EVET|%21|EVET|%29|1|HAY
↳ IR|%30|EVET|%29|2|HAYIR|%27|EVET|%28|3|HAYIR|%27|EVET|%29|2|HAYIR|%21|EVET|%30|3|HAYIR|%36|EVET|%28|3|HAYIR|%24|EVET|%26|4|EVET|%33|EVET|%70|
↳ 1|HAYIR|%24|EVET|%26|4|EVET|%27|EVET|%30
495 494|2026-07-30 20:32:13|4|1/3|EVET|%44|%22|HAYIR|%21|%0|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%0|T•K|EVET|%59|%0|VADI_YON|FRAGMENTARY_2|DONGU_TERS
↳ >TEPE>VADI|PATTERN_BREAK:0,59|EVET|%0|1|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|1|EVET|%0|EVET|%0|1|EVET|%0|E
↳ VET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|1|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0
496 495|2026-08-03 17:57:19|1|4/1|EVET|%44|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%38|T•B|EVET|%59|%52|DONGU_TERS_YON|FRAGMENTARY_2|D
↳ ONGU_TERS>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%41|4|EVET|%0|EVET|%38|1|HAYIR|%0|EVET|%30|4|EVET|%0|EVET|%51|1|HAYIR|%0|EVET|%34|1|HAYIR|%
↳ 0|EVET|%33|2|HAYIR|%0|EVET|%30|4|EVET|%0|EVET|%30|1|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%29|4|EVET|%0|EVET|%54|3|HAYIR|%0|EV
↳ ET|%27|1|HAYIR|%0|EVET|%31
497 496|2026-08-03 17:57:20|4|4/1|HAYIR|%44|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%32|C•K|EVET|%59|%54|VADI_YON|FRAGMENTARY_2|VADI>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%30|1|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%46|4|HAYIR|%0|EVET|%44|1|HAYIR|%0|EVET|%46|1|H
↳ AYIR|%0|EVET|%48|3|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%41|3|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%77|3|HAYIR|%0|EVET|%26|3|HA
↳ YIR|%0|EVET|%29
498 497|2026-08-03 17:57:21|2|1/2|HAYIR|%43|%22|HAYIR|%21|%44|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%43|T•B|EVET|%59|%57|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_DUZ>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%57|1|HAYIR|%0|EVET|%43|1|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%69|1|HAYIR|%0|EVET|%39|1|HAYI
↳ R|%0|EVET|%45|1|HAYIR|%0|EVET|%57|4|EVET|%0|EVET|%30|1|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%41|1|HAYIR|%0|EVET|%57|1|HAYIR|
↳ %0|EVET|%26|2|HAYIR|%0|EVET|%27
499 498|2026-08-03 17:57:23|4|1/4|EVET|%44|%22|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%35|T•K|EVET|%59|%58|DONGU_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%50|1|EVET|%0|EVET|%35|2|HAYIR|%0|EVET|%27|1|EVET|%0|EVET|%74|1|EVET|%0|EVET|%31|4|HAYIR|%0|EVET|%29|1|
↳ EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%29|1|EVET|%0|EVET|%29|3|HAYIR|%0|EVET|%30|1|EVET|%0|EVET|%35|4|HAYIR|%0|EVET|%43|1|EVET|%0|EVET|%26|1|EVET|
↳ %0|EVET|%31
500 499|2026-08-03 17:57:24|1|4/1|HAYIR|%44|%22|EVET|%21|%62|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%47|T•B|EVET|%59|%53|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ VADI>DONGU||HAYIR|%59|4|HAYIR|%60|EVET|%47|1|EVET|%0|EVET|%30|4|HAYIR|%40|EVET|%69|1|EVET|%40|EVET|%29|4|HAYIR|%20|EVET|%44|4|HAYIR|%40|EVET|
↳ %50|4|HAYIR|%40|EVET|%32|4|HAYIR|%40|EVET|%35|1|EVET|%0|EVET|%27|4|HAYIR|%60|EVET|%40|4|HAYIR|%40|EVET|%66|1|EVET|%20|EVET|%26|1|EVET|%40|EVE
↳ T|%30
501 500|2026-08-03 17:57:25|1|2/4|HAYIR|%44|%22|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%33|C•K|EVET|%59|%52|DONGU_YON|FRAGMENTARY_2|DONG
↳ U_TERS>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%50|EVET|%33|2|HAYIR|%16|EVET|%26|2|HAYIR|%33|EVET|%56|3|HAYIR|%50|EVET|%38|3|HAYIR|%16
↳ |EVET|%33|3|HAYIR|%33|EVET|%43|4|HAYIR|%33|EVET|%28|1|EVET|%33|EVET|%29|1|EVET|%16|EVET|%27|2|HAYIR|%50|EVET|%31|2|HAYIR|%33|EVET|%62|1|EVET|
↳ %33|EVET|%26|3|HAYIR|%50|EVET|%33
502 501|2026-08-03 17:57:27|1|3/1|HAYIR|%44|%22|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|T•B|HAYIR|%59|%50|DONGU_YON|FRAGMENTARY_2|DON
↳ GU_TERS>ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%54|1|HAYIR|%42|EVET|%32|1|HAYIR|%14|EVET|%31|1|HAYIR|%28|EVET|%35|1|HAYIR|%42|EVET|%32|1|HA
↳ YIR|%14|EVET|%35|1|HAYIR|%28|EVET|%34|3|HAYIR|%28|EVET|%29|1|HAYIR|%42|EVET|%37|1|HAYIR|%28|EVET|%28|1|HAYIR|%42|EVET|%31|3|HAYIR|%28|EVET|%6
↳ 8|1|HAYIR|%42|EVET|%26|3|HAYIR|%42|EVET|%32
503 502|2026-08-03 17:57:28|2|3/4|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%45|T•B|EVET|%59|%53|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >VADI>DONGU|PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%37|EVET|%45|4|HAYIR|%12|EVET|%26|3|HAYIR|%25|EVET|%41|2|HAYIR|%37|EVET|%29|1|EVET|%12|EVET|%
↳ 30|3|HAYIR|%25|EVET|%39|4|HAYIR|%25|EVET|%32|3|HAYIR|%37|EVET|%31|3|HAYIR|%25|EVET|%27|3|HAYIR|%37|EVET|%32|3|HAYIR|%25|EVET|%92|1|EVET|%37|E
↳ VET|%26|4|HAYIR|%37|EVET|%32
504 503|2026-08-03 17:57:28|1|4/3|HAYIR|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%36|C•K|EVET|%59|%53|DONGU_YON|FRAGMENTARY_2|VADI
↳ >DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%45|4|HAYIR|%33|EVET|%36|1|EVET|%11|EVET|%30|3|HAYIR|%22|EVET|%30|3|HAYIR|%33|EVET|%38|4|HAYIR|%22|
↳ EVET|%43|4|HAYIR|%22|EVET|%68|4|HAYIR|%22|EVET|%31|2|HAYIR|%33|EVET|%32|1|EVET|%22|EVET|%27|4|HAYIR|%33|EVET|%34|4|HAYIR|%22|EVET|%93|1|EVET|
↳ %44|EVET|%26|1|EVET|%33|EVET|%36
505 504|2026-08-03 17:57:29|1|3/4|HAYIR|%43|%22|EVET|%21|%35|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%30|T•B|EVET|%60|%56|TEPE_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>TEPE|PATTERN_BREAK:0,59|EVET|%60|3|HAYIR|%30|EVET|%30|4|EVET|%20|EVET|%26|3|HAYIR|%20|EVET|%46|3|HAYIR|%30|EVET|%29|1|HAYIR|%20|EVET|%28|
↳ 3|HAYIR|%20|EVET|%41|2|HAYIR|%20|EVET|%27|1|HAYIR|%30|EVET|%36|1|HAYIR|%30|EVET|%28|3|HAYIR|%30|EVET|%29|3|HAYIR|%20|EVET|%80|3|HAYIR|%50|EVE
↳ T|%26|3|HAYIR|%40|EVET|%32
506 505|2026-08-03 17:57:32|4|3/4|HAYIR|%43|%22|HAYIR|%21|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%44|T•B|EVET|%60|%55|VADI_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%62|3|HAYIR|%27|EVET|%44|1|EVET|%27|EVET|%31|3|HAYIR|%18|EVET|%92|1|EVET|%27|EVET|%31|3|HAYIR|%18|EVE
↳ T|%40|3|HAYIR|%18|EVET|%75|1|EVET|%18|EVET|%31|1|EVET|%27|EVET|%37|3|HAYIR|%27|EVET|%30|3|HAYIR|%27|EVET|%41|3|HAYIR|%18|EVET|%92|3|HAYIR|%45
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 506 ve sonrası)

```
|EVET|%26|3|HAYIR|%36|EVET|%28
506|2026-08-03 17:57:32|1|1/4|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%43|C•K|HAYIR|%59|%56|TEPE_YON|FRAGMENTARY_2|AZAL
IS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%25|EVET|%43|4|HAYIR|%33|EVET|%29|1|HAYIR|%16|EVET|%70|1|HAYIR|%33|EVET|%33|1|HAYIR|%16|EVE
T|%44|1|HAYIR|%16|EVET|%60|4|HAYIR|%25|EVET|%31|4|HAYIR|%33|EVET|%34|1|HAYIR|%25|EVET|%28|1|HAYIR|%25|EVET|%38|1|HAYIR|%16|EVET|%94|3|EVET|%4
1|EVET|%26|1|HAYIR|%33|EVET|%32
507|2026-08-03 17:57:33|3|4/1|HAYIR|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%43|C•K|HAYIR|%59|%56|DONGU_TERS_YON|FRAGMENTARY_
2|VADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%27|4|HAYIR|%23|EVET|%43|1|HAYIR|%30|EVET|%32|1|HAYIR|%15|EVET|%41|4|HAYIR|%30|EVET|%27|1|HAY
IR|%15|EVET|%28|4|HAYIR|%15|EVET|%40|2|HAYIR|%23|EVET|%29|1|HAYIR|%30|EVET|%43|2|HAYIR|%23|EVET|%28|1|HAYIR|%23|EVET|%29|4|HAYIR|%15|EVET|%57
|3|EVET|%46|EVET|%26|4|HAYIR|%30|EVET|%33
508|2026-08-03 17:57:34|3|4/3|HAYIR|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%41|T•K|EVET|%59|%51|DONGU_TERS_YON|FRAGMENTARY_2
|VADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%21|EVET|%41|4|HAYIR|%28|EVET|%27|2|HAYIR|%14|EVET|%31|2|HAYIR|%28|EVET|%38|2|HAYI
R|%14|EVET|%30|2|HAYIR|%14|EVET|%46|2|HAYIR|%21|EVET|%34|3|HAYIR|%28|EVET|%32|2|HAYIR|%21|EVET|%28|2|HAYIR|%21|EVET|%32|2|HAYIR|%14|EVET|%81|
3|HAYIR|%50|EVET|%26|2|HAYIR|%28|EVET|%32
509|2026-08-03 17:57:37|1|3/4|HAYIR|%43|%22|EVET|%21|%49|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%36|C•B|EVET|%60|%52|VADI_YON|FRAGMENTARY_2|TEPE>D
ONGU>VADI||HAYIR|%57|2|HAYIR|%20|EVET|%36|1|HAYIR|%26|EVET|%33|4|EVET|%13|EVET|%51|4|EVET|%26|EVET|%35|2|HAYIR|%13|EVET|%30|2|HAYIR|%13|EVET|
%48|4|EVET|%20|EVET|%30|1|HAYIR|%26|EVET|%29|1|HAYIR|%20|EVET|%28|2|HAYIR|%20|EVET|%28|2|HAYIR|%13|EVET|%68|3|HAYIR|%46|EVET|%26|2|HAYIR|%26|
EVET|%34
510|2026-08-03 17:57:38|4|1/4|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%30|T•K|EVET|%60|%52|TEPE_YON|FRAGMENTARY_2|DONGU>
DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%39|3|EVET|%18|EVET|%30|4|HAYIR|%25|EVET|%27|3|EVET|%18|EVET|%47|4|HAYIR|%31|EVET|%40|3|EVET|%12|EVET|%41|
3|EVET|%12|EVET|%48|1|HAYIR|%25|EVET|%33|1|HAYIR|%25|EVET|%35|3|EVET|%18|EVET|%30|3|EVET|%18|EVET|%30|3|EVET|%12|EVET|%38|1|HAYIR|%43|EVET|%2
7|3|EVET|%25|EVET|%27
511|2026-08-03 17:57:39|3|2/1|HAYIR|%43|%22|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%48|C•K|EVET|%60|%51|TEPE_YON|FRAGMENTARY_2|TEPE>
DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%32|2|HAYIR|%23|EVET|%48|1|HAYIR|%23|EVET|%31|2|HAYIR|%23|EVET|%73|3|HAYIR|%29|EVET|%37|2|HAYIR|%17|EVET|%
40|2|HAYIR|%17|EVET|%65|2|HAYIR|%23|EVET|%29|1|HAYIR|%23|EVET|%36|2|HAYIR|%23|EVET|%28|2|HAYIR|%23|EVET|%39|2|HAYIR|%17|EVET|%61|1|HAYIR|%41|
EVET|%27|2|HAYIR|%29|EVET|%29
512|2026-08-03 17:57:40|4|3/2|EVET|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%39|T•K|EVET|%60|%55|VADI_YON|FRAGMENTARY_2|DONGU_T
ERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%39|3|EVET|%22|EVET|%39|3|EVET|%22|EVET|%25|1|HAYIR|%22|EVET|%48|2|HAYIR|%27|EVET|%38|2|HAYIR|%16|EVET|
%28|2|HAYIR|%16|EVET|%37|1|HAYIR|%22|EVET|%32|1|HAYIR|%22|EVET|%30|3|EVET|%22|EVET|%30|3|EVET|%22|EVET|%28|2|HAYIR|%16|EVET|%65|1|HAYIR|%38|E
VET|%27|3|EVET|%27|EVET|%34
513|2026-08-03 17:57:46|3|4/2|HAYIR|%43|%22|EVET|%21|%28|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%30|C•B|EVET|%60|%52|DONGU_TERS_YON|FRAGMENTARY_2|D
ONGU>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%41|2|EVET|%26|EVET|%30|1|HAYIR|%26|EVET|%31|1|HAYIR|%21|EVET|%28|3|HAYIR|%26|EVET|%42|4|HAYIR|%
15|EVET|%31|4|HAYIR|%15|EVET|%34|4|HAYIR|%21|EVET|%30|1|HAYIR|%21|EVET|%35|2|EVET|%26|EVET|%28|2|EVET|%26|EVET|%26|4|HAYIR|%15|EVET|%49|1|HAY
IR|%36|EVET|%27|2|EVET|%31|EVET|%28
514|2026-08-03 17:57:47|2|1/4|HAYIR|%43|%22|EVET|%21|%25|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%28|T•B|EVET|%60|%53|DONGU_TERS_YON|FRAGMENTARY_2|
DONGU>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%30|EVET|%28|3|HAYIR|%25|EVET|%27|1|HAYIR|%20|EVET|%34|2|HAYIR|%25|EVET|%27|1|HAYIR
|%15|EVET|%47|1|HAYIR|%15|EVET|%59|4|EVET|%20|EVET|%31|4|EVET|%20|EVET|%37|3|HAYIR|%30|EVET|%27|1|HAYIR|%30|EVET|%31|2|HAYIR|%15|EVET|%35|1|H
AYIR|%35|EVET|%26|4|EVET|%35|EVET|%31
515|2026-08-03 17:57:48|4|3/1|HAYIR|%43|%22|HAYIR|%21|%56|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%38|T•K|EVET|%60|%58|DONGU_TERS_YON|FRAGMENTARY_2
|DONGU_TERS>DONGU_TERS>DONGU_TERS||HAYIR|%71|1|HAYIR|%28|EVET|%38|1|HAYIR|%23|EVET|%29|3|HAYIR|%19|EVET|%42|1|HAYIR|%23|EVET|%47|3|HAYIR|%14|
EVET|%29|3|HAYIR|%14|EVET|%35|3|HAYIR|%23|EVET|%31|1|HAYIR|%23|EVET|%33|3|HAYIR|%28|EVET|%31|1|HAYIR|%28|EVET|%31|1|HAYIR|%14|EVET|%62|1|HAYI
R|%33|EVET|%26|1|HAYIR|%38|EVET|%32
516|2026-08-03 17:57:48|2|1/2|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%35|T•B|EVET|%60|%57|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%52|1|HAYIR|%27|EVET|%35|4|HAYIR|%22|EVET|%28|1|HAYIR|%18|EVET|%33|1|HAYIR|%22|EVET|%40|1
|HAYIR|%13|EVET|%47|1|HAYIR|%13|EVET|%45|4|HAYIR|%22|EVET|%32|4|HAYIR|%22|EVET|%28|3|EVET|%27|EVET|%27|1|HAYIR|%27|EVET|%31|4|HAYIR|%13|EVET|
%39|1|HAYIR|%31|EVET|%26|1|HAYIR|%36|EVET|%26
517|2026-08-03 17:57:53|3|1/2|EVET|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%42|T•K|EVET|%60|%52|DONGU_TERS_YON|FRAGMENTARY_2|B
LOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%44|1|EVET|%26|EVET|%42|1|EVET|%21|EVET|%30|1|EVET|%17|EVET|%45|4|HAYIR|%21|EVET|%33|2|HAYIR
|%13|EVET|%41|1|EVET|%13|EVET|%48|2|HAYIR|%21|EVET|%30|2|HAYIR|%21|EVET|%30|2|HAYIR|%30|EVET|%28|1|EVET|%26|EVET|%32|1|EVET|%13|EVET|%97|3|HA
YIR|%30|EVET|%26|1|EVET|%34|EVET|%31
518|2026-08-03 17:57:53|1|1/2|HAYIR|%43|%22|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%30|T•B|EVET|%60|%51|TEPE_YON|FRAGMENTARY_2|BLOK_
DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%29|EVET|%30|3|HAYIR|%25|EVET|%27|1|HAYIR|%20|EVET|%41|4|EVET|%20|EVET|%32|1|HAYIR|%12|EVET
|%35|1|HAYIR|%16|EVET|%37|4|EVET|%20|EVET|%31|4|EVET|%20|EVET|%37|1|HAYIR|%29|EVET|%27|1|HAYIR|%29|EVET|%28|2|HAYIR|%16|EVET|%64|3|HAYIR|%29|
EVET|%26|2|HAYIR|%37|EVET|%33
519|2026-08-03 17:57:54|4|3/4|HAYIR|%43|%22|HAYIR|%21|%53|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%36|C•K|EVET|%60|%52|VADI_YON|FRAGMENTARY_2|TEPE>
TEPE>VADI||HAYIR|%73|3|HAYIR|%28|EVET|%36|1|HAYIR|%24|EVET|%31|3|HAYIR|%20|EVET|%60|4|HAYIR|%24|EVET|%35|3|HAYIR|%12|EVET|%42|3|HAYIR|%16|EVE
T|%48|3|HAYIR|%24|EVET|%31|1|HAYIR|%24|EVET|%36|3|HAYIR|%28|EVET|%31|3|HAYIR|%28|EVET|%35|3|HAYIR|%16|EVET|%52|3|HAYIR|%28|EVET|%26|3|HAYIR|%
36|EVET|%29
520|2026-08-03 17:57:57|2|3/4|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%30|T•B|EVET|%60|%52|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%61|2|HAYIR|%26|EVET|%30|3|HAYIR|%23|EVET|%28|4|HAYIR|%19|EVET|%35|1|EVET|%23|EVET|%35|2|HAYIR|
%11|EVET|%41|2|HAYIR|%15|EVET|%45|4|HAYIR|%23|EVET|%31|3|HAYIR|%23|EVET|%30|3|HAYIR|%26|EVET|%27|2|HAYIR|%26|EVET|%27|1|EVET|%15|EVET|%56|3|H
AYIR|%26|EVET|%26|3|HAYIR|%34|EVET|%25
521|2026-08-03 17:57:58|1|1/2|HAYIR|%43|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%44|C•K|HAYIR|%60|%53|TEPE_YON|FRAGMENTARY_2|VADI
>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%57|1|HAYIR|%25|EVET|%44|1|HAYIR|%22|EVET|%31|1|HAYIR|%18|EVET|%46|3|EVET|%25|EVET|%31|1|HAYIR|%11|E
VET|%35|1|HAYIR|%14|EVET|%51|4|HAYIR|%22|EVET|%33|4|HAYIR|%22|EVET|%42|1|HAYIR|%25|EVET|%27|1|HAYIR|%25|EVET|%33|1|HAYIR|%18|EVET|%91|3|EVET|
%25|EVET|%26|1|HAYIR|%33|EVET|%38
522|2026-08-03 17:57:59|3|2/4|HAYIR|%43|%21|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%44|C•B|EVET|%60|%54|DONGU_YON|FRAGMENTARY_2|DONG
U_TERS>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%42|4|HAYIR|%25|EVET|%44|3|EVET|%21|EVET|%26|4|HAYIR|%17|EVET|%44|4|HAYIR|%28|EVET|%33|4|HAYI
R|%10|EVET|%43|4|HAYIR|%14|EVET|%55|2|HAYIR|%21|EVET|%29|1|HAYIR|%21|EVET|%31|2|HAYIR|%25|EVET|%28|4|HAYIR|%25|EVET|%35|2|HAYIR|%17|EVET|%82|
3|EVET|%28|EVET|%26|4|HAYIR|%32|EVET|%32
523|2026-08-03 17:58:00|3|1/2|HAYIR|%43|%21|EVET|%21|%50|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%35|C•K|EVET|%60|%54|TEPE_YON|FRAGMENTARY_2|DONGU_T
ERS>DONGU_TERS>TEPE||HAYIR|%67|2|EVET|%24|EVET|%35|1|HAYIR|%24|EVET|%29|1|HAYIR|%17|EVET|%44|1|HAYIR|%27|EVET|%29|3|HAYIR|%10|EVET|%43|2|EVET
|%13|EVET|%40|1|HAYIR|%20|EVET|%37|1|HAYIR|%20|EVET|%40|2|EVET|%24|EVET|%28|1|HAYIR|%24|EVET|%31|2|EVET|%17|EVET|%80|1|HAYIR|%31|EVET|%26|2|E
VET|%31|EVET|%31
524|2026-08-03 17:58:04|2|4/3|HAYIR|%43|%21|EVET|%21|%29|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%41|T•B|EVET|%61|%55|VADI_YON|FRAGMENTARY_2|VADI>D
ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%26|EVET|%41|3|EVET|%23|EVET|%28|4|HAYIR|%16|EVET|%42|1|HAYIR|%26|EVET|%36|3|EVET|%10|EVET
|%30|4|HAYIR|%16|EVET|%39|4|HAYIR|%20|EVET|%30|3|EVET|%20|EVET|%33|3|EVET|%26|EVET|%27|4|HAYIR|%23|EVET|%31|4|HAYIR|%20|EVET|%91|1|HAYIR|%30|
EVET|%26|4|HAYIR|%33|EVET|%33
525|2026-08-03 17:58:05|3|1/2|HAYIR|%43|%21|EVET|%21|%30|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%35|C•K|EVET|%61|%55|TEPE_YON|FRAGMENTARY_2|DALGA_
TEK_SIM_2>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%48|4|HAYIR|%25|EVET|%35|1|HAYIR|%25|EVET|%30|4|HAYIR|%16|EVET|%44|4|HAYIR|%25|EVET|%44|4|H
AYIR|%12|EVET|%42|4|HAYIR|%16|EVET|%55|2|EVET|%19|EVET|%29|1|HAYIR|%22|EVET|%31|2|EVET|%29|EVET|%28|4|HAYIR|%22|EVET|%35|2|EVET|%19|EVET|%58|
1|HAYIR|%29|EVET|%26|1|HAYIR|%32|EVET|%32
526|2026-08-03 17:58:05|2|4/3|EVET|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%41|T•B|EVET|%61|%55|VADI_YON|FRAGMENTARY_2|VADI>TE
PE>VADI|PATTERN_BREAK:0,59|EVET|%49|4|EVET|%25|EVET|%41|3|HAYIR|%25|EVET|%28|1|HAYIR|%15|EVET|%36|4|EVET|%25|EVET|%32|4|EVET|%12|EVET|%29|4|E
VET|%15|EVET|%46|4|EVET|%21|EVET|%30|3|HAYIR|%21|EVET|%29|3|HAYIR|%31|EVET|%28|4|EVET|%21|EVET|%31|4|EVET|%21|EVET|%81|1|HAYIR|%28|EVET|%26|4
|EVET|%31|EVET|%32
527|2026-08-03 17:58:06|4|1/3|HAYIR|%43|%21|EVET|%21|%40|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%40|T•K|EVET|%61|%57|VADI_YON|FRAGMENTARY_2|TEPE>V
ADI>VADI|PATTERN_BREAK:0,59|EVET|%60|1|HAYIR|%27|EVET|%40|1|HAYIR|%24|EVET|%31|1|HAYIR|%15|EVET|%35|1|HAYIR|%27|EVET|%53|3|EVET|%15|EVET|%43|
3|EVET|%18|EVET|%39|3|EVET|%24|EVET|%30|1|HAYIR|%21|EVET|%32|3|EVET|%30|EVET|%30|1|HAYIR|%24|EVET|%33|1|HAYIR|%24|EVET|%59|1|HAYIR|%27|EVET|%
26|1|HAYIR|%33|EVET|%31
528|2026-08-03 17:58:10|3|2/4|HAYIR|%43|%21|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%44|T•K|EVET|%61|%51|TEPE_YON|FRAGMENTARY_2|TEPE>
DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%57|2|HAYIR|%26|EVET|%44|4|HAYIR|%23|EVET|%28|2|HAYIR|%14|EVET|%49|3|HAYIR|%26|EVET|%43|4|HAYIR|%17|E
VET|%30|2|HAYIR|%20|EVET|%50|2|HAYIR|%26|EVET|%30|2|HAYIR|%20|EVET|%34|2|HAYIR|%32|EVET|%28|2|HAYIR|%23|EVET|%33|2|HAYIR|%23|EVET|%69|1|EVET|
%26|EVET|%26|2|HAYIR|%32|EVET|%30
529|2026-08-03 17:58:11|1|1/2|HAYIR|%43|%21|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|T•B|EVET|%61|%56|DONGU_YON|FRAGMENTARY_2|DONG
U>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%25|EVET|%31|1|HAYIR|%22|EVET|%29|4|EVET|%14|EVET|%37|3|HAYIR|%25|EVET|%36|2|HAYIR|%17|EVET|
%41|2|HAYIR|%20|EVET|%39|4|EVET|%25|EVET|%32|4|EVET|%20|EVET|%37|1|HAYIR|%31|EVET|%27|2|HAYIR|%22|EVET|%28|2|HAYIR|%22|EVET|%46|1|HAYIR|%28|E
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 530 ve sonrası)

```
VET|%26|2|HAYIR|%31|EVET|%32
530|2026-08-03 17:58:12|4|3/4|EVET|%43|%22|HAYIR|%21|%55|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%26|T•K|EVET|%61|%54|DONGU_YON|FRAGMENTARY_2|TEPE>
DONGU>DONGU||HAYIR|%78|1|HAYIR|%25|EVET|%26|3|EVET|%22|EVET|%27|1|HAYIR|%16|EVET|%34|4|HAYIR|%25|EVET|%33|4|HAYIR|%16|EVET|%35|4|HAYIR|%19|EV
ET|%41|3|EVET|%27|EVET|%32|3|EVET|%22|EVET|%34|3|EVET|%30|EVET|%31|3|EVET|%22|EVET|%27|3|EVET|%22|EVET|%49|3|EVET|%27|EVET|%26|3|EVET|%30|EVE
T|%29
531|2026-08-03 17:58:13|3|2/4|EVET|%43|%22|HAYIR|%21|%38|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%37|T•B|HAYIR|%61|%51|DONGU_YON|FRAGMENTARY_2|VADI>
TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%57|2|EVET|%24|EVET|%37|1|HAYIR|%24|EVET|%29|4|HAYIR|%16|EVET|%41|3|HAYIR|%24|EVET|%42|2|EVET|%16|EVET|%33
|2|EVET|%18|EVET|%49|2|EVET|%29|EVET|%29|1|HAYIR|%24|EVET|%32|2|EVET|%32|EVET|%28|2|EVET|%24|EVET|%32|2|EVET|%24|EVET|%60|3|HAYIR|%29|EVET|%2
6|2|EVET|%32|EVET|%29
532|2026-08-03 17:58:15|2|4/3|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%31|C•B|EVET|%61|%52|DONGU_YON|FRAGMENTARY_2|DONG
U>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%54|4|HAYIR|%26|EVET|%31|3|HAYIR|%23|EVET|%30|2|EVET|%15|EVET|%35|2|EVET|%23|EVET|%29|2|EVET|%18|EVET|%4
2|2|EVET|%21|EVET|%54|4|HAYIR|%31|EVET|%31|4|HAYIR|%23|EVET|%32|3|HAYIR|%34|EVET|%28|2|EVET|%26|EVET|%29|2|EVET|%26|EVET|%30|3|HAYIR|%28|EVET
|%26|4|HAYIR|%34|EVET|%33
533|2026-08-03 17:58:15|2|1/3|HAYIR|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%38|T•K|EVET|%61|%58|TEPE_YON|FRAGMENTARY_2|DONGU
_TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%38|1|HAYIR|%25|EVET|%38|2|EVET|%23|EVET|%27|1|HAYIR|%17|EVET|%42|3|HAYIR|%25|EVET|%31|1|HAYIR|%20|EV
ET|%32|1|HAYIR|%23|EVET|%44|1|HAYIR|%30|EVET|%32|3|HAYIR|%23|EVET|%32|3|HAYIR|%33|EVET|%27|1|HAYIR|%28|EVET|%32|1|HAYIR|%28|EVET|%58|3|HAYIR|
%28|EVET|%26|3|HAYIR|%33|EVET|%30
534|2026-08-03 17:58:16|2|3/4|HAYIR|%43|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%48|T•B|HAYIR|%61|%60|BLOK_TERS_TEKRAR|FRAGMENTAR
Y_2|DONGU_TERS>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%70|3|HAYIR|%25|EVET|%48|3|HAYIR|%25|EVET|%28|3|HAYIR|%17|EVET|%51|3|
HAYIR|%25|EVET|%48|3|HAYIR|%20|EVET|%43|3|HAYIR|%22|EVET|%69|3|HAYIR|%30|EVET|%46|3|HAYIR|%22|EVET|%37|3|HAYIR|%32|EVET|%27|3|HAYIR|%27|EVET|
%45|3|HAYIR|%27|EVET|%89|3|HAYIR|%27|EVET|%26|3|HAYIR|%32|EVET|%29
535|2026-08-03 17:58:17|2|3/1|HAYIR|%43|%22|EVET|%21|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%41|T•B|EVET|%61|%60|BLOK_TERS_TEKRAR|FRAGMENTARY_
2|VADI>VADI>BLOK_TERS|PATTERN_BREAK:0,59|EVET|%46|3|HAYIR|%24|EVET|%41|1|EVET|%24|EVET|%32|3|HAYIR|%17|EVET|%43|3|HAYIR|%24|EVET|%47|3|HAYIR|
%19|EVET|%33|3|HAYIR|%21|EVET|%45|4|HAYIR|%29|EVET|%30|3|HAYIR|%21|EVET|%33|3|HAYIR|%31|EVET|%27|3|HAYIR|%26|EVET|%36|1|EVET|%26|EVET|%25|3|H
AYIR|%26|EVET|%26|3|HAYIR|%31|EVET|%28
536|2026-08-03 17:58:18|1|1/3|EVET|%43|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%37|T•K|EVET|%61|%54|TEPE_YON|FRAGMENTARY_2|DONGU>T
EPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%40|1|EVET|%23|EVET|%37|3|HAYIR|%26|EVET|%28|3|HAYIR|%16|EVET|%43|3|HAYIR|%23|EVET|%45|3|H
AYIR|%19|EVET|%43|1|EVET|%21|EVET|%34|4|HAYIR|%28|EVET|%33|2|HAYIR|%21|EVET|%29|1|EVET|%30|EVET|%27|3|HAYIR|%26|EVET|%32|1|EVET|%28|EVET|%62|
1|EVET|%26|EVET|%26|1|EVET|%30|EVET|%36
537|2026-08-03 17:58:19|1|3/1|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%29|C•B|EVET|%61|%53|BLOK_TERS_TEKRAR|FRAGMENTARY_
2|TEPE>DONGU>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%36|4|EVET|%25|EVET|%29|1|HAYIR|%25|EVET|%30|4|EVET|%16|EVET|%37|3|HAYIR|%23
|EVET|%30|2|HAYIR|%18|EVET|%27|3|HAYIR|%23|EVET|%36|4|EVET|%27|EVET|%30|1|HAYIR|%20|EVET|%33|1|HAYIR|%32|EVET|%27|3|HAYIR|%25|EVET|%27|3|HAYI
R|%30|EVET|%76|1|HAYIR|%27|EVET|%26|3|HAYIR|%32|EVET|%31
538|2026-08-03 17:58:21|4|3/1|HAYIR|%43|%22|HAYIR|%21|%58|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%44|C•K|EVET|%61|%50|VADI_YON|FRAGMENTARY_2|VADI>
DONGU>VADI|REGIME_SHIFT:0,50|EVET|%75|3|HAYIR|%27|EVET|%44|3|HAYIR|%25|EVET|%27|3|HAYIR|%18|EVET|%64|3|HAYIR|%22|EVET|%28|3|HAYIR|%18|EVET|%4
2|3|HAYIR|%22|EVET|%70|3|HAYIR|%29|EVET|%33|3|HAYIR|%20|EVET|%47|3|HAYIR|%31|EVET|%31|3|HAYIR|%25|EVET|%44|3|HAYIR|%29|EVET|%91|1|HAYIR|%27|E
VET|%26|3|HAYIR|%31|EVET|%31
539|2026-08-03 17:58:22|2|1/2|HAYIR|%43|%22|HAYIR|%21|%37|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%32|T•K|EVET|%61|%50|TEPE_YON|FRAGMENTARY_2|VADI>
DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%55|1|HAYIR|%26|EVET|%32|1|HAYIR|%24|EVET|%28|1|HAYIR|%17|EVET|%45|1|HAYIR|%22|EVET|%37|2|HAYIR|%17|EVET|%
44|2|HAYIR|%22|EVET|%39|4|HAYIR|%28|EVET|%30|1|HAYIR|%20|EVET|%31|3|EVET|%31|EVET|%27|1|HAYIR|%24|EVET|%30|1|HAYIR|%28|EVET|%71|1|HAYIR|%26|E
VET|%26|1|HAYIR|%31|EVET|%27
540|2026-08-03 17:58:27|3|1/2|HAYIR|%43|%21|EVET|%21|%32|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%48|T•K|EVET|%61|%52|VADI_YON|FRAGMENTARY_2|TEPE>D
ONGU>VADI|PATTERN_BREAK:0,59|EVET|%35|1|HAYIR|%26|EVET|%48|3|HAYIR|%23|EVET|%27|1|HAYIR|%17|EVET|%66|4|HAYIR|%21|EVET|%34|1|HAYIR|%17|EVET|%4
5|1|HAYIR|%21|EVET|%63|2|EVET|%28|EVET|%31|2|EVET|%19|EVET|%40|2|EVET|%32|EVET|%29|1|HAYIR|%23|EVET|%39|1|HAYIR|%28|EVET|%98|1|HAYIR|%26|EVET
|%26|1|HAYIR|%30|EVET|%31
541|2026-08-03 17:58:28|2|4/3|EVET|%43|%22|HAYIR|%21|%43|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%43|C•B|EVET|%61|%56|DONGU_TERS_YON|FRAGMENTARY_2|V
ADI>TEPE>DONGU_TERS||HAYIR|%53|4|EVET|%25|EVET|%43|1|HAYIR|%23|EVET|%27|1|HAYIR|%17|EVET|%32|4|EVET|%21|EVET|%33|4|EVET|%17|EVET|%41|4|EVET|%
21|EVET|%51|4|EVET|%29|EVET|%29|3|HAYIR|%21|EVET|%26|3|HAYIR|%34|EVET|%27|4|EVET|%23|EVET|%34|4|EVET|%27|EVET|%86|1|HAYIR|%25|EVET|%26|4|EVET
|%29|EVET|%32
542|2026-08-03 17:58:30|4|3/1|HAYIR|%43|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%36|T•K|HAYIR|%61|%62|VADI_YON|FRAGMENTARY_2|DONG
U>BLOK_TERS>VADI|PATTERN_BREAK:0,59|EVET|%42|1|HAYIR|%27|EVET|%36|3|HAYIR|%22|EVET|%29|3|HAYIR|%16|EVET|%42|1|HAYIR|%22|EVET|%49|1|HAYIR|%18|
EVET|%44|1|HAYIR|%22|EVET|%42|3|HAYIR|%31|EVET|%32|2|HAYIR|%20|EVET|%35|3|HAYIR|%33|EVET|%31|1|HAYIR|%25|EVET|%33|1|HAYIR|%29|EVET|%52|1|HAYI
R|%25|EVET|%26|1|HAYIR|%31|EVET|%30
543|2026-08-03 17:58:31|4|3/1|HAYIR|%43|%22|EVET|%21|%26|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%33|T•K|EVET|%61|%61|TEPE_YON|FRAGMENTARY_2|DONGU>
BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%28|2|HAYIR|%26|EVET|%33|2|HAYIR|%22|EVET|%29|3|HAYIR|%16|EVET|%45|1|EVET|%22|EVET|%48|2|HAYIR|%18|EVE
T|%44|2|HAYIR|%22|EVET|%56|1|EVET|%30|EVET|%32|3|HAYIR|%20|EVET|%32|3|HAYIR|%32|EVET|%31|2|HAYIR|%24|EVET|%31|1|EVET|%28|EVET|%63|3|HAYIR|%24
|EVET|%26|3|HAYIR|%30|EVET|%35
544|2026-08-03 17:58:32|1|4/3|EVET|%44|%22|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%37|T•B|EVET|%62|%58|TEPE_YON|FRAGMENTARY_2|DONGU>T
EPE>TEPE||HAYIR|%45|4|EVET|%26|EVET|%37|3|HAYIR|%22|EVET|%26|4|EVET|%16|EVET|%47|3|HAYIR|%24|EVET|%34|1|HAYIR|%18|EVET|%28|4|EVET|%22|EVET|%3
1|4|EVET|%32|EVET|%33|4|EVET|%20|EVET|%39|1|HAYIR|%32|EVET|%27|4|EVET|%24|EVET|%31|3|HAYIR|%30|EVET|%48|3|HAYIR|%24|EVET|%26|1|HAYIR|%30|EVET
|%31
545|2026-08-03 17:58:34|4|3/4|HAYIR|%44|%22|EVET|%21|%26|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%26|%38|C•B|EVET|%62|%56|VADI_YON|FRAGMENTARY_2|TEPE>BL
OK_TERS>VADI|PATTERN_BREAK:0,59|EVET|%38|4|EVET|%27|EVET|%38|1|HAYIR|%21|EVET|%27|4|EVET|%17|EVET|%65|4|EVET|%23|EVET|%35|4|EVET|%17|EVET|%43
|4|EVET|%23|EVET|%69|3|HAYIR|%33|EVET|%32|1|HAYIR|%21|EVET|%26|3|HAYIR|%31|EVET|%31|4|EVET|%25|EVET|%36|4|EVET|%29|EVET|%74|3|HAYIR|%23|EVET|
%26|3|HAYIR|%29|EVET|%30
546|2026-08-03 17:58:37|4|3/1|HAYIR|%44|%22|HAYIR|%21|%0|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%0|T•K|EVET|%62|%0|VADI_YON|FRAGMENTARY_2|VADI>VAD
I>VADI|PATTERN_BREAK:0,59|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|E
VET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0
547|2026-08-05 23:12:24|2|1/4|HAYIR|%43|%22|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%32|T•K|EVET|%62|%57|DONGU_YON|FRAGMENTARY_2|TEPE
>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%48|1|HAYIR|%0|EVET|%35|4|HAYIR|%0|EVET|%44|4
|HAYIR|%0|EVET|%35|4|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%99|1|HAYIR|%0|EVET|%26|1|
HAYIR|%0|EVET|%27
548|2026-08-05 23:12:25|2|1/3|HAYIR|%44|%22|EVET|%22|%42|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%35|T•K|EVET|%62|%62|TEPE_YON|FRAGMENTARY_2|TEPE>V
ADI>TEPE|PATTERN_BREAK:0,59|EVET|%67|1|HAYIR|%0|EVET|%35|4|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%43|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%44|1|HA
YIR|%0|EVET|%37|1|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%27|3|EVET|%0|EVET|%27|1|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%88|1|HAYIR|%0|EVET|%26|1|HAYI
R|%0|EVET|%29
549|2026-08-05 23:12:28|3|4/2|HAYIR|%44|%22|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%31|T•B|HAYIR|%62|%54|VADI_YON|FRAGMENTARY_2|BLOK_
TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%28|4|HAYIR|%0|EVET|%45|4|HAYIR|%0|EVET|%36|4|HAYIR|%0|E
VET|%35|4|HAYIR|%0|EVET|%41|2|EVET|%0|EVET|%32|2|EVET|%0|EVET|%44|2|EVET|%0|EVET|%29|4|HAYIR|%0|EVET|%31|4|HAYIR|%0|EVET|%82|1|HAYIR|%0|EVET|
%26|2|EVET|%0|EVET|%31
550|2026-08-05 23:12:30|2|4/3|HAYIR|%44|%21|EVET|%22|%59|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%48|C•B|EVET|%62|%57|VADI_YON|FRAGMENTARY_2|BLOK_T
ERS>VADI>VADI||HAYIR|%65|4|HAYIR|%0|EVET|%48|3|EVET|%0|EVET|%26|4|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%38|4|HAYIR|%0|EVET|%43|4|HAYIR|%0|EVET|%
55|4|HAYIR|%0|EVET|%31|4|HAYIR|%0|EVET|%32|3|EVET|%0|EVET|%27|4|HAYIR|%0|EVET|%37|4|HAYIR|%0|EVET|%98|4|HAYIR|%0|EVET|%27|4|HAYIR|%0|EVET|%32
551|2026-08-05 23:12:36|3|2/1|EVET|%44|%22|HAYIR|%22|%42|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%38|C•K|EVET|%62|%55|TEPE_YON|FRAGMENTARY_2|TEKRAR>
TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%71|2|EVET|%0|EVET|%38|1|HAYIR|%20|EVET|%27|2|EVET|%0|EVET|%48|4|HAYIR|%0|EVET|%48|2|EVET|%0|EVET|%32|2|EVE
T|%0|EVET|%42|2|EVET|%20|EVET|%33|2|EVET|%20|EVET|%48|2|EVET|%60|EVET|%29|2|EVET|%0|EVET|%36|2|EVET|%0|EVET|%90|4|HAYIR|%0|EVET|%27|2|EVET|%2
0|EVET|%31
552|2026-08-05 23:12:38|2|4/3|HAYIR|%44|%22|HAYIR|%22|%54|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%52|C•B|EVET|%62|%53|VADI_YON|FRAGMENTARY_2|BLOK_
TERS>TEPE>VADI||HAYIR|%76|4|HAYIR|%16|EVET|%52|3|HAYIR|%16|EVET|%27|4|HAYIR|%16|EVET|%35|4|HAYIR|%0|EVET|%38|4|HAYIR|%16|EVET|%43|4|HAYIR|%16
|EVET|%60|4|HAYIR|%33|EVET|%30|3|HAYIR|%33|EVET|%30|3|HAYIR|%66|EVET|%27|4|HAYIR|%16|EVET|%37|4|HAYIR|%16|EVET|%97|4|HAYIR|%0|EVET|%27|4|HAYI
R|%33|EVET|%31
553|2026-08-05 23:12:39|2|3/4|HAYIR|%44|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%27|T•B|HAYIR|%62|%55|VADI_YON|FRAGMENTARY_2|BLOK
_TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%57|3|HAYIR|%14|EVET|%27|1|HAYIR|%14|EVET|%29|1|HAYIR|%14|EVET|%40|2|EVET|%0|EVET|%29|4|HAYIR|%14|EVE
T|%42|4|HAYIR|%14|EVET|%35|3|HAYIR|%28|EVET|%32|2|EVET|%28|EVET|%29|3|HAYIR|%57|EVET|%27|4|HAYIR|%14|EVET|%27|1|HAYIR|%14|EVET|%62|4|HAYIR|%0
|EVET|%26|3|HAYIR|%28|EVET|%30
554|2026-08-05 23:12:40|2|3/2|HAYIR|%44|%21|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%36|T•K|EVET|%62|%55|TEPE_YON|FRAGMENTARY_2|VADI>V
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 555 ve sonrası)

```
ADI>TEPE|PATTERN_BREAK:0,59|EVET|%41|3|HAYIR|%12|EVET|%36|3|HAYIR|%12|EVET|%28|3|HAYIR|%12|EVET|%35|3|HAYIR|%12|EVET|%35|3|HAYIR|%12|EVET|%33
|3|HAYIR|%12|EVET|%50|3|HAYIR|%25|EVET|%46|2|EVET|%37|EVET|%33|3|HAYIR|%50|EVET|%27|3|HAYIR|%12|EVET|%35|3|HAYIR|%12|EVET|%99|4|HAYIR|%0|EVET
|%26|3|HAYIR|%25|EVET|%29
555|2026-08-05 23:12:42|2|2/1|HAYIR|%44|%21|EVET|%22|%35|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%45|T•K|EVET|%62|%60|DONGU_TERS_YON|FRAGMENTARY_2|T
EPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%57|1|EVET|%11|EVET|%45|2|HAYIR|%11|EVET|%27|1|EVET|%11|EVET|%39|1|EVET|%11|EVET|%37|1|EVET|%11|
EVET|%42|1|EVET|%11|EVET|%73|1|EVET|%22|EVET|%49|2|HAYIR|%44|EVET|%35|3|HAYIR|%44|EVET|%27|1|EVET|%11|EVET|%41|1|EVET|%11|EVET|%99|2|HAYIR|%0
|EVET|%27|3|HAYIR|%22|EVET|%29
556|2026-08-05 23:12:44|1|2/4|HAYIR|%44|%21|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%62|T•K|EVET|%62|%55|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%47|1|HAYIR|%20|EVET|%62|3|EVET|%10|EVET|%27|1|HAYIR|%20|EVET|%49|3|EVET|%20|EVET|%45|1|HAYIR|%
20|EVET|%43|1|HAYIR|%20|EVET|%75|4|HAYIR|%30|EVET|%34|2|HAYIR|%40|EVET|%32|1|HAYIR|%40|EVET|%28|1|HAYIR|%20|EVET|%36|1|HAYIR|%20|EVET|%87|1|H
AYIR|%0|EVET|%26|1|HAYIR|%20|EVET|%38
557|2026-08-05 23:12:47|3|2/4|EVET|%44|%22|HAYIR|%22|%42|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%31|C•K|EVET|%62|%55|TEPE_YON|FRAGMENTARY_2|DONGU_
TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%61|3|HAYIR|%18|EVET|%31|2|EVET|%18|EVET|%29|3|HAYIR|%18|EVET|%32|4|HAYIR|%27|EVET|%35|3|HAYIR|%18|EVE
T|%42|2|EVET|%18|EVET|%42|2|EVET|%27|EVET|%35|2|EVET|%36|EVET|%47|2|EVET|%36|EVET|%30|2|EVET|%18|EVET|%31|2|EVET|%18|EVET|%58|1|HAYIR|%0|EVET
|%26|4|HAYIR|%18|EVET|%31
558|2026-08-05 23:12:48|2|3/2|HAYIR|%44|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%36|C•B|HAYIR|%62|%54|BLOK_TERS_TEKRAR|FRAGMENTAR
Y_2|DONGU>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%16|EVET|%36|2|HAYIR|%25|EVET|%27|2|HAYIR|%16|EVET|%32|2|HAYIR
|%25|EVET|%36|2|HAYIR|%16|EVET|%35|2|HAYIR|%25|EVET|%44|4|HAYIR|%33|EVET|%30|2|HAYIR|%41|EVET|%30|3|HAYIR|%41|EVET|%27|2|HAYIR|%25|EVET|%31|3
|HAYIR|%25|EVET|%79|1|EVET|%0|EVET|%26|4|HAYIR|%16|EVET|%31
559|2026-08-05 23:12:53|1|4/2|HAYIR|%44|%21|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|C•K|HAYIR|%62|%52|TEPE_YON|FRAGMENTARY_2|VADI
>TEPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%15|EVET|%36|2|HAYIR|%23|EVET|%29|1|HAYIR|%15|EVET|%42|2|HAYIR|%23|EVET|%31|
4|HAYIR|%15|EVET|%41|1|HAYIR|%23|EVET|%37|4|HAYIR|%30|EVET|%33|4|HAYIR|%38|EVET|%39|1|HAYIR|%38|EVET|%28|4|HAYIR|%23|EVET|%27|2|HAYIR|%23|EVE
T|%95|1|HAYIR|%7|EVET|%26|1|HAYIR|%15|EVET|%37
560|2026-08-05 23:12:55|3|2|HAYIR|%44|%21|HAYIR|%22|%66|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%31|C•B|EVET|%62|%54|DONGU_YON|FRAGMENTARY_2|TEPE>VA
DI>DONGU||HAYIR|%84|4|EVET|%14|EVET|%31|3|HAYIR|%21|EVET|%28|2|HAYIR|%14|EVET|%34|4|EVET|%21|EVET|%36|2|HAYIR|%14|EVET|%34|2|HAYIR|%21|EVET|%
37|2|HAYIR|%28|EVET|%36|2|HAYIR|%35|EVET|%42|2|HAYIR|%35|EVET|%30|2|HAYIR|%21|EVET|%33|2|HAYIR|%21|EVET|%67|1|HAYIR|%7|EVET|%26|4|EVET|%14|EV
ET|%31
561|2026-08-05 23:12:57|4|2/3|HAYIR|%44|%21|EVET|%22|%35|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%42|T•K|EVET|%62|%51|VADI_YON|FRAGMENTARY_2|VADI>VA
DI>VADI|PATTERN_BREAK:0,59|EVET|%44|3|EVET|%20|EVET|%42|1|HAYIR|%20|EVET|%28|3|EVET|%13|EVET|%38|2|HAYIR|%26|EVET|%35|1|HAYIR|%13|EVET|%43|1|
HAYIR|%20|EVET|%38|3|EVET|%26|EVET|%31|2|HAYIR|%33|EVET|%37|3|EVET|%33|EVET|%29|1|HAYIR|%20|EVET|%28|3|EVET|%20|EVET|%88|1|HAYIR|%6|EVET|%26|
3|EVET|%20|EVET|%35
562|2026-08-05 23:13:01|3|2/4|HAYIR|%44|%21|EVET|%22|%49|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|C•B|EVET|%62|%52|TEPE_YON|FRAGMENTARY_2|VADI>T
EPE>TEPE||HAYIR|%61|2|HAYIR|%25|EVET|%31|3|HAYIR|%18|EVET|%26|3|HAYIR|%18|EVET|%30|3|HAYIR|%25|EVET|%35|3|HAYIR|%12|EVET|%26|4|EVET|%18|EVET|
%29|2|HAYIR|%31|EVET|%35|2|HAYIR|%31|EVET|%36|2|HAYIR|%37|EVET|%30|2|HAYIR|%18|EVET|%28|4|EVET|%25|EVET|%38|1|HAYIR|%6|EVET|%26|2|HAYIR|%25|E
VET|%31
563|2026-08-05 23:13:03|4|3/2|HAYIR|%44|%21|HAYIR|%22|%40|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%48|C•K|EVET|%62|%52|ZIGZAK_KOM_SALINIMM|FRAGMENT
ARY_2|TEPE>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%55|3|HAYIR|%23|EVET|%48|2|HAYIR|%17|EVET|%26|3|HAYIR|%17|EVET|%60|2|HAYIR|%23|EVET|
%44|2|HAYIR|%11|EVET|%34|3|HAYIR|%23|EVET|%42|3|HAYIR|%29|EVET|%33|2|HAYIR|%29|EVET|%31|3|HAYIR|%35|EVET|%30|3|HAYIR|%17|EVET|%35|3|HAYIR|%29
|EVET|%84|2|HAYIR|%5|EVET|%26|3|HAYIR|%23|EVET|%36
564|2026-08-05 23:13:04|4|3/1|HAYIR|%44|%21|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%34|T•K|EVET|%62|%56|VADI_YON|FRAGMENTARY_2|BLOK_
TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%22|EVET|%34|3|HAYIR|%16|EVET|%26|1|HAYIR|%16|EVET|%29|1|HAYIR|%22|EVET|%40|3|HAYIR|
%11|EVET|%42|3|HAYIR|%22|EVET|%36|1|HAYIR|%27|EVET|%31|1|HAYIR|%27|EVET|%30|3|HAYIR|%33|EVET|%30|3|HAYIR|%16|EVET|%30|4|HAYIR|%27|EVET|%43|4|
HAYIR|%5|EVET|%26|3|HAYIR|%22|EVET|%33
565|2026-08-05 23:13:07|2|1/4|EVET|%44|%21|HAYIR|%22|%57|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%36|T•K|EVET|%62|%54|VADI_YON|FRAGMENTARY_2|VADI>TE
PE>VADI||HAYIR|%58|1|EVET|%21|EVET|%36|2|HAYIR|%15|EVET|%27|1|EVET|%15|EVET|%38|1|EVET|%21|EVET|%42|1|EVET|%10|EVET|%42|1|EVET|%21|EVET|%52|4
|HAYIR|%26|EVET|%29|4|HAYIR|%26|EVET|%33|3|HAYIR|%31|EVET|%27|1|EVET|%15|EVET|%34|1|EVET|%26|EVET|%99|4|HAYIR|%5|EVET|%27|1|EVET|%21|EVET|%26
566|2026-08-05 23:13:10|1|1/4|EVET|%44|%22|HAYIR|%22|%33|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%41|T•K|EVET|%62|%54|TEPE_YON|FRAGMENTARY_2|TEPE>BL
OK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%46|1|EVET|%25|EVET|%41|4|HAYIR|%15|EVET|%36|1|EVET|%20|EVET|%42|3|HAYIR|%25|EVET|%34|4|HAYIR|%15|EVET|%
42|1|EVET|%25|EVET|%45|4|HAYIR|%25|EVET|%33|4|HAYIR|%25|EVET|%57|1|EVET|%30|EVET|%27|4|HAYIR|%20|EVET|%31|1|EVET|%30|EVET|%59|4|HAYIR|%5|EVET
|%27|1|EVET|%25|EVET|%37
567|2026-08-05 23:13:12|1|4/3|EVET|%44|%22|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%27|C•B|EVET|%62|%55|TEPE_YON|FRAGMENTARY_2|DONGU>
TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%32|2|HAYIR|%28|EVET|%27|2|HAYIR|%14|EVET|%28|4|EVET|%23|EVET|%29|1|HAYIR|%23|EVET|%28|2|HAYIR|%14|EVET|%33
|3|HAYIR|%28|EVET|%44|4|EVET|%23|EVET|%34|1|HAYIR|%23|EVET|%31|1|HAYIR|%33|EVET|%28|3|HAYIR|%19|EVET|%27|4|EVET|%33|EVET|%71|4|EVET|%4|EVET|%
27|3|HAYIR|%28|EVET|%31
568|2026-08-05 23:13:19|4|3|EVET|%44|%22|HAYIR|%22|%74|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%26|%32|C•K|HAYIR|%62|%58|VADI_YON|FRAGMENTARY_2|DONGU>DO
NGU>VADI||HAYIR|%88|3|EVET|%27|EVET|%32|3|EVET|%13|EVET|%26|3|EVET|%27|EVET|%37|4|HAYIR|%22|EVET|%30|3|EVET|%13|EVET|%29|3|EVET|%27|EVET|%46|
3|EVET|%27|EVET|%32|3|EVET|%22|EVET|%37|3|EVET|%31|EVET|%29|3|EVET|%18|EVET|%33|3|EVET|%36|EVET|%64|4|HAYIR|%9|EVET|%26|3|EVET|%27|EVET|%29
569|2026-08-05 23:13:22|3|2/1|HAYIR|%44|%22|HAYIR|%22|%41|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%35|C•K|EVET|%62|%53|TEPE_YON|FRAGMENTARY_2|TEPE>
VADI>TEPE|PATTERN_BREAK:0,59|EVET|%63|2|HAYIR|%30|EVET|%35|2|HAYIR|%17|EVET|%27|2|HAYIR|%30|EVET|%41|3|HAYIR|%21|EVET|%46|1|HAYIR|%17|EVET|%3
0|3|HAYIR|%30|EVET|%36|2|HAYIR|%30|EVET|%34|2|HAYIR|%26|EVET|%46|2|HAYIR|%34|EVET|%30|2|HAYIR|%21|EVET|%31|2|HAYIR|%39|EVET|%91|1|HAYIR|%8|EV
ET|%26|2|HAYIR|%30|EVET|%31
570|2026-08-05 23:13:26|4|3|HAYIR|%44|%22|HAYIR|%22|%81|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%51|C•B|EVET|%62|%52|VADI_YON|FRAGMENTARY_2|BLOK_TE
RS>TEPE>VADI||HAYIR|%85|3|HAYIR|%29|EVET|%51|2|EVET|%16|EVET|%27|3|HAYIR|%29|EVET|%50|2|EVET|%20|EVET|%32|3|HAYIR|%16|EVET|%42|3|HAYIR|%29|EV
ET|%59|3|HAYIR|%29|EVET|%33|2|EVET|%25|EVET|%39|3|HAYIR|%33|EVET|%30|3|HAYIR|%20|EVET|%40|3|HAYIR|%37|EVET|%84|1|HAYIR|%8|EVET|%25|3|HAYIR|%2
9|EVET|%36
571|2026-08-05 23:13:29|2|3/1|HAYIR|%44|%22|HAYIR|%22|%43|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%33|T•B|EVET|%63|%52|VADI_YON|FRAGMENTARY_2|TEKRA
R>ZIGZAK_KOM>VADI|PATTERN_BREAK:0,59|EVET|%57|3|HAYIR|%28|EVET|%33|2|HAYIR|%20|EVET|%40|3|HAYIR|%28|EVET|%40|1|HAYIR|%24|EVET|%33|1|HAYIR|%16
|EVET|%30|3|HAYIR|%28|EVET|%36|4|EVET|%28|EVET|%29|4|EVET|%28|EVET|%32|3|HAYIR|%32|EVET|%27|1|HAYIR|%20|EVET|%29|3|HAYIR|%36|EVET|%89|1|HAYIR
|%8|EVET|%25|1|HAYIR|%28|EVET|%27
572|2026-08-05 23:13:35|4|1/3|HAYIR|%44|%22|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%37|T•B|HAYIR|%62|%53|DONGU_TERS_YON|FRAGMENTARY_
2|BLOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%44|1|HAYIR|%26|EVET|%37|2|EVET|%19|EVET|%28|1|HAYIR|%26|EVET|%79|1|HAYIR|%23|EVET|%40|3|
HAYIR|%15|EVET|%41|1|HAYIR|%26|EVET|%32|3|HAYIR|%30|EVET|%32|2|EVET|%30|EVET|%36|3|HAYIR|%30|EVET|%30|1|HAYIR|%19|EVET|%34|1|HAYIR|%34|EVET|%
97|1|HAYIR|%7|EVET|%25|1|HAYIR|%26|EVET|%30
573|2026-08-05 23:13:40|2|3/4|HAYIR|%44|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%30|T•B|EVET|%62|%60|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%30|1|EVET|%25|EVET|%30|1|EVET|%22|EVET|%26|3|HAYIR|%25|EVET|%45|1|EVET|%22|EVET|%31|4|HAYIR|%14
|EVET|%44|4|HAYIR|%25|EVET|%29|4|HAYIR|%29|EVET|%30|4|HAYIR|%33|EVET|%33|3|HAYIR|%29|EVET|%27|3|HAYIR|%18|EVET|%27|3|HAYIR|%33|EVET|%66|1|EVE
T|%7|EVET|%25|1|EVET|%25|EVET|%27
574|2026-08-05 23:13:45|1|4/3|HAYIR|%44|%22|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%43|T•B|HAYIR|%62|%56|TEPE_YON|FRAGMENTARY_2|DONG
U>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%28|EVET|%43|3|HAYIR|%25|EVET|%26|1|HAYIR|%25|EVET|%49|3|HAYIR|%25|EVET|%31|3|HAYIR|%14|EVET|
%41|1|HAYIR|%25|EVET|%43|4|HAYIR|%28|EVET|%33|4|HAYIR|%32|EVET|%53|1|HAYIR|%28|EVET|%28|3|HAYIR|%17|EVET|%31|1|HAYIR|%32|EVET|%67|1|HAYIR|%10
|EVET|%25|1|HAYIR|%28|EVET|%37
575|2026-08-05 23:13:50|2|3/2|HAYIR|%44|%22|HAYIR|%22|%26|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%43|C•B|EVET|%62|%51|DONGU_YON|FRAGMENTARY_2|TEPE
>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%32|3|HAYIR|%27|EVET|%43|1|HAYIR|%24|EVET|%27|1|HAYIR|%24|EVET|%39|3|HAYIR|%24|EVET|%40|3|HAYIR|%13|EVET|
%32|3|HAYIR|%24|EVET|%52|4|EVET|%27|EVET|%30|4|EVET|%31|EVET|%31|3|HAYIR|%27|EVET|%26|3|HAYIR|%17|EVET|%33|3|HAYIR|%31|EVET|%99|1|HAYIR|%10|E
VET|%25|3|HAYIR|%27|EVET|%32
576|2026-08-05 23:14:01|4|3/2|HAYIR|%44|%22|EVET|%22|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%38|T•K|EVET|%62|%55|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%26|EVET|%38|2|EVET|%23|EVET|%27|1|HAYIR|%23|EVET|%34|1|HAYIR|%23|EVET|%43|1|HAYIR|%
13|EVET|%42|1|HAYIR|%23|EVET|%49|3|HAYIR|%30|EVET|%31|2|EVET|%33|EVET|%42|3|HAYIR|%26|EVET|%29|1|HAYIR|%16|EVET|%30|4|HAYIR|%30|EVET|%45|2|EV
ET|%10|EVET|%27|1|HAYIR|%26|EVET|%29
577|2026-08-05 23:14:05|2|1/2|EVET|%44|%22|HAYIR|%22|%42|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%26|%34|T•K|EVET|%63|%54|DONGU_YON|FRAGMENTARY_2|VADI>T
EPE>DONGU||HAYIR|%51|1|EVET|%25|EVET|%34|1|EVET|%25|EVET|%27|3|HAYIR|%22|EVET|%30|1|EVET|%22|EVET|%33|2|HAYIR|%12|EVET|%34|4|HAYIR|%22|EVET|%
31|4|HAYIR|%29|EVET|%31|4|HAYIR|%35|EVET|%31|4|HAYIR|%25|EVET|%26|1|EVET|%16|EVET|%26|3|HAYIR|%29|EVET|%59|4|HAYIR|%12|EVET|%27|1|EVET|%25|EV
ET|%28
578|2026-08-05 23:14:18|1|3/2|HAYIR|%44|%22|EVET|%22|%37|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%39|T•B|HAYIR|%62|%52|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>VADI>DONGU_TERS||HAYIR|%46|1|HAYIR|%28|EVET|%39|2|EVET|%28|EVET|%27|2|EVET|%21|EVET|%38|4|HAYIR|%25|EVET|%34|3|HAYIR|%12|EVET|%40|3|HAY
IR|%21|EVET|%58|4|HAYIR|%28|EVET|%33|4|HAYIR|%34|EVET|%47|1|HAYIR|%25|EVET|%28|3|HAYIR|%18|EVET|%28|1|HAYIR|%28|EVET|%67|4|HAYIR|%12|EVET|%27
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 579 ve sonrası)

```
↳ |1|HAYIR|%28|EVET|%37
580 579|2026-08-05 23:15:24|2|1/2|HAYIR|%44|%22|HAYIR|%22|%45|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%38|C•B|EVET|%63|%61|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU>VADI>DONGU_TERS||HAYIR|%67|3|EVET|%27|EVET|%38|1|HAYIR|%30|EVET|%29|4|HAYIR|%24|EVET|%46|3|EVET|%24|EVET|%34|2|HAYIR|%12|EVET|%29|3|EVE
↳ T|%21|EVET|%47|4|HAYIR|%27|EVET|%30|2|HAYIR|%33|EVET|%29|4|HAYIR|%24|EVET|%26|4|HAYIR|%18|EVET|%28|3|EVET|%27|EVET|%99|4|HAYIR|%12|EVET|%27|3
↳ |EVET|%27|EVET|%31
581 580|2026-08-05 23:16:28|3|2/4|HAYIR|%44|%22|HAYIR|%22|%40|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%40|C•K|EVET|%63|%58|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%71|2|HAYIR|%29|EVET|%40|2|HAYIR|%29|EVET|%30|2|HAYIR|%23|EVET|%43|3|HAYIR|%26|EVET|%32|1
↳ |EVET|%11|EVET|%30|1|EVET|%23|EVET|%42|2|HAYIR|%26|EVET|%34|2|HAYIR|%32|EVET|%51|2|HAYIR|%23|EVET|%29|2|HAYIR|%17|EVET|%35|2|HAYIR|%29|EVET|%
↳ 74|2|HAYIR|%11|EVET|%27|2|HAYIR|%29|EVET|%32
582 581|2026-08-05 23:17:37|1|2/1|EVET|%44|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%40|C•K|EVET|%63|%57|DONGU_TERS_YON|FRAGMENTARY_2|T
↳ EPE>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%40|2|EVET|%28|EVET|%40|1|HAYIR|%28|EVET|%26|2|EVET|%22|EVET|%55|3|HAYIR|%25|EVET|%35|2|EVE
↳ T|%14|EVET|%47|2|EVET|%25|EVET|%61|4|HAYIR|%25|EVET|%31|4|HAYIR|%31|EVET|%39|1|HAYIR|%22|EVET|%27|2|EVET|%17|EVET|%33|1|HAYIR|%28|EVET|%56|4|
↳ HAYIR|%11|EVET|%27|2|EVET|%28|EVET|%31
583 582|2026-08-05 23:18:37|2|4/3|HAYIR|%44|%22|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%47|C•K|EVET|%63|%52|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%29|4|HAYIR|%30|EVET|%47|2|EVET|%27|EVET|%31|4|HAYIR|%25|EVET|%76|2|EVET|%25|EVET|%31|4|HAYIR|%16|EVET
↳ |%42|4|HAYIR|%27|EVET|%64|4|HAYIR|%25|EVET|%29|2|EVET|%30|EVET|%33|3|HAYIR|%22|EVET|%26|4|HAYIR|%19|EVET|%41|4|HAYIR|%27|EVET|%73|1|HAYIR|%11
↳ |EVET|%25|3|HAYIR|%30|EVET|%32
584 583|2026-08-05 23:19:47|2|1/3|HAYIR|%44|%22|EVET|%22|%35|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%26|%36|T•B|EVET|%63|%55|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%61|3|EVET|%29|EVET|%36|1|HAYIR|%29|EVET|%27|3|EVET|%24|EVET|%42|2|HAYIR|%27|EVET|%33|3|EVET|%16|EVET|%
↳ 40|3|EVET|%27|EVET|%52|3|EVET|%24|EVET|%30|1|HAYIR|%32|EVET|%34|3|EVET|%21|EVET|%26|3|EVET|%18|EVET|%35|3|EVET|%27|EVET|%54|2|HAYIR|%10|EVET|
↳ %25|1|HAYIR|%29|EVET|%29
585 584|2026-08-05 23:20:52|3|2/4|EVET|%44|%22|HAYIR|%22|%40|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%37|C•K|EVET|%63|%57|VADI_YON|FRAGMENTARY_2|VADI>DO
↳ NGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%66|2|EVET|%31|EVET|%37|2|EVET|%28|EVET|%30|4|HAYIR|%26|EVET|%46|2|EVET|%26|EVET|%34|2|EVET|%18|EVET|%4
↳ 8|2|EVET|%28|EVET|%44|2|EVET|%26|EVET|%34|2|EVET|%31|EVET|%54|2|EVET|%23|EVET|%29|2|EVET|%21|EVET|%37|4|HAYIR|%28|EVET|%82|2|EVET|%10|EVET|%2
↳ 6|2|EVET|%28|EVET|%32
586 585|2026-08-05 23:21:55|2|4/2|HAYIR|%44|%22|HAYIR|%22|%35|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%44|C•K|HAYIR|%63|%63|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%46|4|HAYIR|%33|EVET|%44|1|HAYIR|%30|EVET|%27|3|EVET|%25|EVET|%29|2|HAYIR|%28|EVET|%37|4|HAYIR|%20|EVET
↳ |%42|4|HAYIR|%30|EVET|%58|4|HAYIR|%28|EVET|%29|2|HAYIR|%33|EVET|%33|3|EVET|%25|EVET|%27|4|HAYIR|%23|EVET|%35|4|HAYIR|%28|EVET|%96|2|HAYIR|%12
↳ |EVET|%25|4|HAYIR|%30|EVET|%30
587 586|2026-08-05 23:23:01|3|2/1|HAYIR|%44|%22|HAYIR|%22|%46|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%53|C•K|HAYIR|%63|%56|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%76|2|HAYIR|%32|EVET|%53|2|HAYIR|%30|EVET|%30|2|HAYIR|%27|EVET|%45|2|HAYIR|%27|EVET|%42|2|HAYIR|%2
↳ 0|EVET|%48|2|HAYIR|%30|EVET|%70|2|HAYIR|%27|EVET|%34|2|HAYIR|%32|EVET|%57|2|HAYIR|%27|EVET|%30|2|HAYIR|%22|EVET|%47|2|HAYIR|%27|EVET|%92|2|HA
↳ YIR|%12|EVET|%25|2|HAYIR|%30|EVET|%33
588 587|2026-08-05 23:24:15|3|1/2|HAYIR|%44|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%38|C•K|EVET|%63|%56|VADI_YON|FRAGMENTARY_2|DONGU
↳ _TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%54|2|HAYIR|%31|EVET|%38|2|HAYIR|%29|EVET|%27|1|HAYIR|%26|EVET|%52|4|EVET|%26|EVET|%34|1|HAYIR|
↳ %19|EVET|%29|1|HAYIR|%29|EVET|%39|2|HAYIR|%26|EVET|%37|2|HAYIR|%31|EVET|%43|2|HAYIR|%26|EVET|%30|1|HAYIR|%21|EVET|%32|1|HAYIR|%26|EVET|%79|2|
↳ HAYIR|%12|EVET|%26|2|HAYIR|%29|EVET|%33
589 588|2026-08-05 23:25:29|4|2/3|HAYIR|%44|%22|HAYIR|%22|%0|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%0|C•K|EVET|%63|%0|DONGU_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%
↳ 0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYI
↳ R|%0|EVET|%0
590 589|2026-08-17 18:36:54|4|1/2|HAYIR|%44|%22|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%31|T•K|HAYIR|%63|%55|DONGU_YON|FRAGMENTARY_2|DON
↳ GU>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%36|1|HAYIR|%0|EVET|%37|4|EVET|%0|EVE
↳ T|%30|3|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%89|2|HAYIR|%0|EVET
↳ |%29|3|HAYIR|%0|EVET|%32
591 590|2026-08-17 18:36:55|4|1/2|HAYIR|%43|%21|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%33|T•K|HAYIR|%63|%54|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%34|3|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%37|1|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%47|
↳ 3|HAYIR|%0|EVET|%40|3|HAYIR|%0|EVET|%43|2|HAYIR|%0|EVET|%37|3|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%97|2|HAYIR|%0|EVET|%29|3
↳ |HAYIR|%0|EVET|%31
592 591|2026-08-17 18:36:57|4|2/3|HAYIR|%43|%21|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%31|T•B|EVET|%63|%57|VADI_YON|FRAGMENTARY_2|VADI>
↳ VADI>VADI|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%0|EVET|%31|1|EVET|%0|EVET|%27|3|HAYIR|%0|EVET|%38|1|EVET|%0|EVET|%34|3|HAYIR|%0|EVET|%33|3|HAY
↳ IR|%0|EVET|%39|2|HAYIR|%0|EVET|%38|2|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%30|1|EVET|%0|EVET|%25|2|HAYIR|%0|EVET|%29|3|HAYIR
↳ |%0|EVET|%30
593 592|2026-08-17 18:36:58|1|3/4|HAYIR|%43|%21|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%41|T•K|EVET|%63|%53|TEPE_YON|FRAGMENTARY_2|VADI>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%33|4|HAYIR|%0|EVET|%41|2|HAYIR|%0|EVET|%31|4|HAYIR|%0|EVET|%58|3|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%28|4|H
↳ AYIR|%0|EVET|%37|4|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%46|1|EVET|%0|EVET|%27|4|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%91|2|HAYIR|%0|EVET|%29|4|HAY
↳ IR|%0|EVET|%30
594 593|2026-08-17 18:36:59|1|2/4|HAYIR|%43|%21|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%27|C•K|EVET|%63|%57|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE|PATTERN_BREAK:0,59|EVET|%28|4|EVET|%0|EVET|%27|1|HAYIR|%20|EVET|%25|1|HAYIR|%0|EVET|%39|3|HAYIR|%20|EVET|%31|4|EVET|%20|EVET|%44|4|E
↳ VET|%0|EVET|%31|4|EVET|%0|EVET|%35|4|EVET|%0|EVET|%39|1|HAYIR|%20|EVET|%28|4|EVET|%0|EVET|%29|2|HAYIR|%20|EVET|%69|2|HAYIR|%0|EVET|%29|3|HAYI
↳ R|%0|EVET|%30
595 594|2026-08-17 18:37:02|4|2/3|EVET|%44|%22|HAYIR|%22|%47|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%35|C•B|EVET|%63|%52|TEPE_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU>TEPE||HAYIR|%56|3|HAYIR|%16|EVET|%35|2|EVET|%16|EVET|%27|3|HAYIR|%0|EVET|%48|4|HAYIR|%16|EVET|%33|2|EVET|%33|EVET|%46|2|EVET|%16|EVET|%4
↳ 7|3|HAYIR|%16|EVET|%30|3|HAYIR|%16|EVET|%34|3|HAYIR|%16|EVET|%29|2|EVET|%16|EVET|%29|3|HAYIR|%16|EVET|%80|2|EVET|%0|EVET|%29|3|HAYIR|%0|EVET|
↳ %30
596 595|2026-08-17 18:37:03|2|2/1|HAYIR|%43|%21|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%31|T•K|EVET|%63|%51|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|VADI>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%38|1|HAYIR|%14|EVET|%31|1|HAYIR|%28|EVET|%30|3|EVET|%0|EVET|%38|1|HAYIR|%14
↳ |EVET|%32|2|HAYIR|%42|EVET|%47|2|HAYIR|%28|EVET|%50|3|EVET|%14|EVET|%28|1|HAYIR|%14|EVET|%34|3|EVET|%14|EVET|%27|2|HAYIR|%28|EVET|%28|1|HAYIR
↳ |%14|EVET|%70|4|HAYIR|%14|EVET|%25|1|HAYIR|%0|EVET|%29
597 596|2026-08-17 18:37:04|3|2/1|HAYIR|%43|%21|HAYIR|%21|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%47|C•K|EVET|%63|%54|VADI_YON|FRAGMENTARY_2|VADI>
↳ DONGU>VADI|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%68|2|HAYIR|%12|EVET|%47|2|HAYIR|%25|EVET|%30|2|HAYIR|%12|EVET|%43|4|EVET|%12|EVET|%34|2
↳ |HAYIR|%37|EVET|%46|2|HAYIR|%25|EVET|%59|2|HAYIR|%25|EVET|%34|2|HAYIR|%12|EVET|%46|2|HAYIR|%25|EVET|%30|2|HAYIR|%25|EVET|%38|1|HAYIR|%12|EVET
↳ |%92|4|EVET|%12|EVET|%25|2|HAYIR|%0|EVET|%33
598 597|2026-08-17 18:37:06|4|4/3|HAYIR|%43|%21|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%44|C•K|EVET|%63|%53|VADI_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>VADI|PATTERN_BREAK:0,59|EVET|%34|3|HAYIR|%11|EVET|%44|4|HAYIR|%22|EVET|%27|3|HAYIR|%11|EVET|%40|2|EVET|%22|EVET|%39|4|HAYIR|%33|EVET|%2
↳ 8|3|HAYIR|%22|EVET|%43|2|EVET|%22|EVET|%30|2|EVET|%11|EVET|%29|3|HAYIR|%22|EVET|%29|3|HAYIR|%22|EVET|%31|3|HAYIR|%11|EVET|%88|4|HAYIR|%22|EVE
↳ T|%25|3|HAYIR|%0|EVET|%34
599 598|2026-08-17 18:37:08|2|3/2|EVET|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%34|T•B|EVET|%63|%55|VADI_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%40|3|EVET|%10|EVET|%34|2|HAYIR|%20|EVET|%29|3|EVET|%10|EVET|%60|2|HAYIR|%30|EVET|%38|3|EVET|%30|EVET|
↳ %41|3|EVET|%20|EVET|%52|3|EVET|%30|EVET|%29|4|HAYIR|%20|EVET|%30|3|EVET|%20|EVET|%27|3|EVET|%20|EVET|%34|3|EVET|%10|EVET|%81|4|HAYIR|%20|EVET
↳ |%25|1|HAYIR|%0|EVET|%28
600 599|2026-08-17 18:37:09|3|1/2|HAYIR|%43|%22|HAYIR|%21|%45|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%41|T•K|HAYIR|%63|%53|DONGU_YON|FRAGMENTARY_2|VAD
↳ I>VADI>DONGU||HAYIR|%57|1|HAYIR|%18|EVET|%41|1|HAYIR|%18|EVET|%28|1|HAYIR|%18|EVET|%50|2|HAYIR|%27|EVET|%30|1|HAYIR|%36|EVET|%41|1|HAYIR|%27|
↳ EVET|%69|2|HAYIR|%36|EVET|%33|4|EVET|%18|EVET|%36|2|HAYIR|%27|EVET|%29|1|HAYIR|%27|EVET|%36|1|HAYIR|%18|EVET|%92|4|EVET|%18|EVET|%25|2|HAYIR|
↳ %0|EVET|%32
601 600|2026-08-17 18:37:11|4|2/3|EVET|%43|%22|HAYIR|%21|%46|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%40|C•K|EVET|%63|%56|DONGU_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>TEPE>DONGU||HAYIR|%58|3|HAYIR|%16|EVET|%40|2|EVET|%16|EVET|%31|2|EVET|%16|EVET|%54|2|EVET|%25|EVET|%46|4|HAYIR|%33|EVET|%28|3|HAYIR|%25|E
↳ VET|%42|2|EVET|%33|EVET|%31|2|EVET|%25|EVET|%36|3|HAYIR|%25|EVET|%28|2|EVET|%25|EVET|%32|3|HAYIR|%16|EVET|%84|4|HAYIR|%25|EVET|%25|3|HAYIR|%0
↳ |EVET|%33
602 601|2026-08-17 18:37:12|2|3/1|HAYIR|%43|%22|HAYIR|%21|%49|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%35|T•B|EVET|%63|%56|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>DONGU||HAYIR|%60|3|HAYIR|%15|EVET|%35|4|EVET|%23|EVET|%28|3|HAYIR|%23|EVET|%72|2|HAYIR|%30|EVET|%38|3|HAYIR|%30|EVET|%41|3|HAYIR|%23|EV
↳ ET|%52|3|HAYIR|%38|EVET|%31|4|EVET|%30|EVET|%32|3|HAYIR|%23|EVET|%28|3|HAYIR|%30|EVET|%37|3|HAYIR|%15|EVET|%86|2|HAYIR|%23|EVET|%29|1|HAYIR|%
↳ 0|EVET|%28
603 602|2026-08-17 18:37:13|4|2/4|HAYIR|%43|%22|EVET|%21|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%34|T•K|HAYIR|%63|%55|DONGU_YON|FRAGMENTARY_2|DONG
↳ U>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%61|2|HAYIR|%14|EVET|%34|2|HAYIR|%28|EVET|%30|1|HAYIR|%21|EVET|%48|1|HAYIR|%28|EVET|%36|2|HAYIR|%28|EVET
↳ |%34|2|HAYIR|%21|EVET|%36|2|HAYIR|%35|EVET|%32|2|HAYIR|%35|EVET|%44|3|HAYIR|%21|EVET|%28|2|HAYIR|%28|EVET|%33|1|HAYIR|%14|EVET|%77|2|HAYIR|%2
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 603 ve sonrası)

```
1|EVET|%29|1|HAYIR|%0|EVET|%28
603|2026-08-17 18:37:14|4|1/4|EVET|%44|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%26|%39|T•K|EVET|%63|%61|DONGU_YON|FRAGMENTARY_2|VADI>BLOK_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%42|1|EVET|%13|EVET|%39|1|EVET|%26|EVET|%28|3|HAYIR|%20|EVET|%34|1|EVET|%26|EVET|%41|2|HAYIR|%26|EVET|%34|1|EVET|%20|EVET|%45|2|HAYIR|%33|EVET|%30|2|HAYIR|%33|EVET|%36|3|HAYIR|%20|EVET|%28|1|EVET|%26|EVET|%32|1|EVET|%13|EVET|%91|2|HAYIR|%20|EVET|%29|3|HAYIR|%0|EVET|%29
604|2026-08-17 18:37:17|1|4/2|EVET|%44|%22|HAYIR|%21|%43|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%39|T•B|EVET|%63|%52|DONGU_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>DONGU||HAYIR|%56|4|EVET|%18|EVET|%39|2|HAYIR|%31|EVET|%32|4|EVET|%18|EVET|%52|2|HAYIR|%31|EVET|%33|2|HAYIR|%25|EVET|%46|4|EVET|%25|EVET|%36|4|EVET|%31|EVET|%31|4|EVET|%31|EVET|%44|1|HAYIR|%18|EVET|%27|4|EVET|%31|EVET|%32|4|EVET|%18|EVET|%90|2|HAYIR|%18|EVET|%29|1|HAYIR|%0|EVET|%32
605|2026-08-17 18:37:18|4|4/2|HAYIR|%44|%22|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%46|C•B|HAYIR|%63|%58|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%54|4|HAYIR|%23|EVET|%46|1|EVET|%29|EVET|%26|4|HAYIR|%23|EVET|%77|4|HAYIR|%29|EVET|%33|4|HAYIR|%23|EVET|%46|4|HAYIR|%29|EVET|%75|2|HAYIR|%35|EVET|%32|4|HAYIR|%35|EVET|%47|3|HAYIR|%17|EVET|%28|4|HAYIR|%35|EVET|%43|4|HAYIR|%23|EVET|%70|2|HAYIR|%17|EVET|%29|3|HAYIR|%0|EVET|%29
606|2026-08-17 18:37:19|1|4/1|HAYIR|%43|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%45|C•K|HAYIR|%63|%51|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%33|1|HAYIR|%22|EVET|%45|2|HAYIR|%33|EVET|%32|1|HAYIR|%22|EVET|%70|1|HAYIR|%27|EVET|%30|1|HAYIR|%22|EVET|%42|1|HAYIR|%27|EVET|%64|4|HAYIR|%33|EVET|%32|4|HAYIR|%33|EVET|%49|1|HAYIR|%16|EVET|%27|1|HAYIR|%33|EVET|%36|1|HAYIR|%22|EVET|%96|2|HAYIR|%16|EVET|%28|4|HAYIR|%0|EVET|%32
607|2026-08-17 18:37:20|3|4/3|HAYIR|%43|%22|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%36|C•B|HAYIR|%63|%55|VADI_YON|FRAGMENTARY_2|TEKRAR>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%21|EVET|%36|4|HAYIR|%31|EVET|%26|3|HAYIR|%21|EVET|%52|4|HAYIR|%26|EVET|%32|3|HAYIR|%21|EVET|%41|3|HAYIR|%26|EVET|%53|2|HAYIR|%31|EVET|%32|4|HAYIR|%31|EVET|%43|2|HAYIR|%15|EVET|%29|3|HAYIR|%31|EVET|%29|4|HAYIR|%21|EVET|%66|2|HAYIR|%15|EVET|%29|4|HAYIR|%0|EVET|%33
608|2026-08-17 18:37:22|1|2/4|HAYIR|%43|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%42|T•B|EVET|%63|%52|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%20|EVET|%42|2|HAYIR|%30|EVET|%31|2|HAYIR|%20|EVET|%38|4|HAYIR|%25|EVET|%33|2|HAYIR|%20|EVET|%45|2|HAYIR|%25|EVET|%55|4|HAYIR|%30|EVET|%31|4|HAYIR|%30|EVET|%34|1|EVET|%15|EVET|%27|2|HAYIR|%30|EVET|%33|3|HAYIR|%20|EVET|%83|4|HAYIR|%15|EVET|%25|2|HAYIR|%0|EVET|%32
609|2026-08-17 18:37:23|1|4/3|HAYIR|%43|%22|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%32|T•B|EVET|%63|%50|VADI_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%46|4|HAYIR|%19|EVET|%32|1|EVET|%28|EVET|%27|4|HAYIR|%19|EVET|%37|4|HAYIR|%23|EVET|%33|3|HAYIR|%19|EVET|%40|3|HAYIR|%23|EVET|%44|4|HAYIR|%28|EVET|%38|4|HAYIR|%28|EVET|%28|1|EVET|%19|EVET|%28|4|HAYIR|%28|EVET|%28|3|HAYIR|%19|EVET|%93|4|HAYIR|%14|EVET|%25|3|HAYIR|%0|EVET|%29
610|2026-08-17 18:37:24|1|2/3|EVET|%43|%22|HAYIR|%21|%38|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%30|C•K|EVET|%63|%53|DONGU_TERS_YON|FRAGMENTARY_2|DALGA_TEK_SIM_3>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%65|2|EVET|%18|EVET|%30|2|EVET|%31|EVET|%30|2|EVET|%18|EVET|%34|4|HAYIR|%22|EVET|%30|2|EVET|%18|EVET|%36|2|EVET|%22|EVET|%35|2|EVET|%27|EVET|%39|1|HAYIR|%27|EVET|%31|1|HAYIR|%22|EVET|%28|2|EVET|%27|EVET|%31|2|EVET|%18|EVET|%88|4|HAYIR|%13|EVET|%25|3|HAYIR|%0|EVET|%29
611|2026-08-17 18:37:26|2|1/4|HAYIR|%43|%22|EVET|%21|%30|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%35|T•K|HAYIR|%63|%54|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%21|EVET|%35|1|HAYIR|%34|EVET|%27|1|HAYIR|%21|EVET|%32|3|HAYIR|%21|EVET|%27|2|HAYIR|%21|EVET|%33|1|HAYIR|%26|EVET|%32|3|HAYIR|%30|EVET|%30|3|HAYIR|%26|EVET|%37|3|HAYIR|%21|EVET|%28|3|HAYIR|%30|EVET|%27|3|HAYIR|%21|EVET|%94|4|EVET|%13|EVET|%25|3|HAYIR|%0|EVET|%32
612|2026-08-17 18:37:27|4|3/2|EVET|%44|%22|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%31|C•K|HAYIR|%63|%52|VADI_YON|FRAGMENTARY_2|TEPE>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%43|4|HAYIR|%20|EVET|%31|2|HAYIR|%33|EVET|%29|4|HAYIR|%20|EVET|%38|3|EVET|%20|EVET|%30|4|HAYIR|%20|EVET|%45|4|HAYIR|%25|EVET|%44|2|HAYIR|%29|EVET|%31|2|HAYIR|%25|EVET|%36|3|EVET|%20|EVET|%27|4|HAYIR|%29|EVET|%28|2|HAYIR|%20|EVET|%58|4|HAYIR|%16|EVET|%25|1|HAYIR|%0|EVET|%28
613|2026-08-17 18:37:29|3|1/4|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%35|C•K|EVET|%63|%55|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%38|2|EVET|%20|EVET|%35|1|HAYIR|%32|EVET|%28|2|EVET|%20|EVET|%40|3|HAYIR|%24|EVET|%38|2|EVET|%20|EVET|%28|2|EVET|%24|EVET|%36|2|EVET|%28|EVET|%31|4|HAYIR|%24|EVET|%29|2|EVET|%24|EVET|%29|2|EVET|%28|EVET|%30|2|EVET|%20|EVET|%75|4|HAYIR|%16|EVET|%25|2|EVET|%0|EVET|%30
614|2026-08-17 18:37:30|2|4/2|HAYIR|%43|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%34|C•B|HAYIR|%63|%59|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%49|2|HAYIR|%23|EVET|%34|2|HAYIR|%30|EVET|%28|4|HAYIR|%23|EVET|%36|2|HAYIR|%23|EVET|%35|2|HAYIR|%23|EVET|%45|2|HAYIR|%26|EVET|%44|4|HAYIR|%30|EVET|%30|3|HAYIR|%23|EVET|%27|3|HAYIR|%26|EVET|%27|2|HAYIR|%30|EVET|%31|2|HAYIR|%23|EVET|%40|2|HAYIR|%15|EVET|%28|4|HAYIR|%3|EVET|%31
615|2026-08-17 18:37:32|1|1/2|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%37|T•K|HAYIR|%63|%53|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%22|EVET|%37|1|HAYIR|%29|EVET|%27|2|HAYIR|%22|EVET|%31|3|HAYIR|%22|EVET|%29|2|HAYIR|%22|EVET|%37|2|HAYIR|%25|EVET|%44|4|EVET|%29|EVET|%31|4|EVET|%22|EVET|%36|1|HAYIR|%25|EVET|%28|2|HAYIR|%29|EVET|%30|2|HAYIR|%22|EVET|%93|2|HAYIR|%14|EVET|%28|1|HAYIR|%3|EVET|%36
616|2026-08-17 18:37:33|4|4/2|EVET|%43|%22|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%27|C•K|EVET|%63|%53|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%33|2|HAYIR|%21|EVET|%27|2|HAYIR|%28|EVET|%29|1|HAYIR|%21|EVET|%48|4|EVET|%21|EVET|%44|4|EVET|%21|EVET|%45|4|EVET|%25|EVET|%36|2|HAYIR|%32|EVET|%30|3|HAYIR|%25|EVET|%29|3|HAYIR|%25|EVET|%28|4|EVET|%28|EVET|%30|1|HAYIR|%21|EVET|%69|2|HAYIR|%14|EVET|%28|3|HAYIR|%3|EVET|%28
617|2026-08-17 18:37:34|4|1/3|HAYIR|%43|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%38|T•K|HAYIR|%63|%54|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%20|EVET|%38|4|EVET|%27|EVET|%28|1|HAYIR|%20|EVET|%38|4|EVET|%24|EVET|%34|1|HAYIR|%24|EVET|%43|1|HAYIR|%27|EVET|%48|1|HAYIR|%31|EVET|%32|1|HAYIR|%24|EVET|%35|3|HAYIR|%24|EVET|%28|1|HAYIR|%31|EVET|%35|3|HAYIR|%20|EVET|%53|2|HAYIR|%13|EVET|%28|1|HAYIR|%3|EVET|%29
618|2026-08-17 18:37:35|4|2/4|HAYIR|%43|%22|HAYIR|%21|%25|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%37|T•B|EVET|%63|%52|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%39|1|HAYIR|%20|EVET|%37|2|HAYIR|%30|EVET|%27|1|HAYIR|%20|EVET|%39|1|HAYIR|%26|EVET|%48|4|HAYIR|%23|EVET|%27|3|EVET|%26|EVET|%35|3|EVET|%30|EVET|%42|2|HAYIR|%23|EVET|%39|3|EVET|%23|EVET|%28|1|HAYIR|%30|EVET|%28|3|EVET|%20|EVET|%97|2|HAYIR|%13|EVET|%28|1|HAYIR|%3|EVET|%28
619|2026-08-17 18:37:37|3|4/1|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%35|T•B|EVET|%63|%51|VADI_YON|FRAGMENTARY_2|VADI>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%54|2|HAYIR|%19|EVET|%35|4|HAYIR|%29|EVET|%28|1|HAYIR|%19|EVET|%46|4|HAYIR|%25|EVET|%34|4|HAYIR|%22|EVET|%46|4|HAYIR|%29|EVET|%35|2|HAYIR|%32|EVET|%32|4|HAYIR|%22|EVET|%35|2|HAYIR|%25|EVET|%29|4|HAYIR|%29|EVET|%31|1|HAYIR|%22|EVET|%73|2|HAYIR|%12|EVET|%28|2|HAYIR|%3|EVET|%31
620|2026-08-17 18:37:38|3|2/4|HAYIR|%43|%22|HAYIR|%21|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%31|C•K|EVET|%63|%57|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|%63|2|HAYIR|%18|EVET|%31|2|HAYIR|%28|EVET|%27|2|HAYIR|%18|EVET|%52|4|HAYIR|%25|EVET|%52|3|HAYIR|%21|EVET|%41|3|HAYIR|%28|EVET|%40|2|HAYIR|%31|EVET|%33|2|HAYIR|%21|EVET|%30|2|HAYIR|%25|EVET|%29|2|HAYIR|%28|EVET|%29|1|EVET|%21|EVET|%83|2|HAYIR|%12|EVET|%28|2|HAYIR|%3|EVET|%32
621|2026-08-17 18:37:40|1|4/3|HAYIR|%43|%22|HAYIR|%21|%25|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%31|C•K|EVET|%63|%55|BLOK_TERS_TEKRAR|FRAGMENTARY_2|VADI>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%32|4|HAYIR|%18|EVET|%31|1|EVET|%27|EVET|%28|4|HAYIR|%18|EVET|%47|2|HAYIR|%24|EVET|%29|4|HAYIR|%21|EVET|%29|2|HAYIR|%27|EVET|%37|4|HAYIR|%30|EVET|%32|4|HAYIR|%21|EVET|%37|1|EVET|%24|EVET|%28|4|HAYIR|%27|EVET|%30|3|HAYIR|%24|EVET|%56|4|HAYIR|%12|EVET|%26|2|HAYIR|%3|EVET|%31
622|2026-08-17 18:37:40|1|2/4|EVET|%43|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%29|C•K|EVET|%63|%51|TEPE_YON|FRAGMENTARY_2|DONGU>TEPE>TEPE|REGIME_SHIFT:0,50|EVET|%44|1|HAYIR|%17|EVET|%29|2|EVET|%29|EVET|%26|2|EVET|%17|EVET|%38|4|HAYIR|%23|EVET|%27|1|HAYIR|%20|EVET|%31|1|HAYIR|%26|EVET|%39|4|HAYIR|%29|EVET|%37|4|HAYIR|%20|EVET|%35|1|HAYIR|%26|EVET|%28|1|HAYIR|%26|EVET|%26|3|HAYIR|%23|EVET|%90|4|HAYIR|%11|EVET|%26|3|HAYIR|%2|EVET|%28
623|2026-08-17 18:37:43|2|4/1|EVET|%43|%22|HAYIR|%21|%57|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%36|T•B|EVET|%63|%56|VADI_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>VADI||HAYIR|%75|4|EVET|%17|EVET|%36|4|EVET|%31|EVET|%28|1|HAYIR|%20|EVET|%41|4|EVET|%22|EVET|%28|4|EVET|%20|EVET|%25|3|HAYIR|%25|EVET|%35|4|EVET|%28|EVET|%29|3|HAYIR|%20|EVET|%35|3|HAYIR|%25|EVET|%27|3|HAYIR|%25|EVET|%27|3|HAYIR|%22|EVET|%93|4|EVET|%11|EVET|%25|4|EVET|%2|EVET|%32
624|2026-08-17 18:37:44|4|3/2|HAYIR|%43|%22|EVET|%21|%51|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%33|T•K|EVET|%63|%53|VADI_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>VADI||HAYIR|%76|3|HAYIR|%19|EVET|%33|2|EVET|%33|EVET|%28|3|HAYIR|%19|EVET|%48|1|HAYIR|%25|EVET|%31|4|HAYIR|%22|EVET|%33|3|HAYIR|%25|EVET|%38|2|EVET|%30|EVET|%30|2|EVET|%19|EVET|%28|3|HAYIR|%25|EVET|%28|3|HAYIR|%25|EVET|%31|2|EVET|%22|EVET|%55|4|HAYIR|%13|EVET|%25|1|HAYIR|%5|EVET|%27
625|2026-08-17 18:37:45|2|4/1|HAYIR|%43|%22|HAYIR|%21|%37|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%39|T•K|EVET|%63|%53|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%66|1|HAYIR|%18|EVET|%39|4|HAYIR|%35|EVET|%30|1|HAYIR|%18|EVET|%44|2|HAYIR|%24|EVET|%33|4|HAYIR|%21|EVET|%29|1|HAYIR|%24|EVET|%33|4|HAYIR|%32|EVET|%30|1|HAYIR|%21|EVET|%31|3|EVET|%24|EVET|%27|1|HAYIR|%24|EVET|%30|1|HAYIR|%24|EVET|%93|4|HAYIR|%13|EVET|%25|1|HAYIR|%5|EVET|%27
626|2026-08-17 18:37:46|3|2/3|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%33|C•K|EVET|%63|%51|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%71|1|HAYIR|%18|EVET|%33|2|HAYIR|%34|EVET|%33|1|HAYIR|%18|EVET|%38|3|HAYIR|%23|EVET|%29|2|HAYIR|%21|EVET|%32|1|HAYIR|%23|EVET|%44|2|HAYIR|%31|EVET|%32|2|HAYIR|%21|EVET|%35|2|HAYIR|%26|EVET|%29|2|HAYIR|%23|EVET|%29|1|HAYIR|%23|EVET|%92|4|EVET|%
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 627 ve sonrası)

```
13|EVET|%25|2|HAYIR|%5|EVET|%31
627|2026-08-17 18:37:59|4|1/4|HAYIR|%43|%22|EVET|%21|%44|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%48|C•K|EVET|%63|%52|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VADI||HAYIR|%66|2|HAYIR|%17|EVET|%48|1|HAYIR|%33|EVET|%30|2|HAYIR|%17|EVET|%63|2|HAYIR|%23|EVET|%34|2|HAYIR|%20|EVET|%44|2|HAYIR|%23|EVET|%60|2|HAYIR|%30|EVET|%31|4|EVET|%20|EVET|%31|3|HAYIR|%25|EVET|%28|2|HAYIR|%23|EVET|%36|3|HAYIR|%23|EVET|%79|2|HAYIR|%15|EVET|%28|3|HAYIR|%5|EVET|%32
628|2026-08-17 18:38:00|4|2/4|HAYIR|%43|%22|EVET|%21|%29|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%28|T•B|EVET|%63|%52|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|BLOK_DUZ>VADI>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%49|4|EVET|%17|EVET|%28|2|HAYIR|%32|EVET|%33|1|HAYIR|%17|EVET|%33|3|HAYIR|%22|EVET|%30|4|EVET|%20|EVET|%38|4|EVET|%22|EVET|%39|1|HAYIR|%30|EVET|%31|2|HAYIR|%22|EVET|%31|3|HAYIR|%25|EVET|%28|4|EVET|%22|EVET|%26|2|HAYIR|%22|EVET|%86|2|HAYIR|%15|EVET|%28|3|HAYIR|%5|EVET|%29
629|2026-08-17 18:38:02|4|4/1|EVET|%43|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%31|T•B|EVET|%63|%58|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|TEPE>BLOK_TERS>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|%57|3|HAYIR|%19|EVET|%31|4|EVET|%31|EVET|%41|1|HAYIR|%17|EVET|%32|3|HAYIR|%21|EVET|%33|3|HAYIR|%21|EVET|%40|3|HAYIR|%24|EVET|%49|3|HAYIR|%29|EVET|%48|4|EVET|%21|EVET|%28|3|HAYIR|%24|EVET|%27|3|HAYIR|%24|EVET|%31|3|HAYIR|%21|EVET|%98|2|HAYIR|%14|EVET|%28|3|HAYIR|%4|EVET|%28
630|2026-08-17 18:38:04|4|3/2|HAYIR|%44|%22|EVET|%21|%29|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%46|T•B|HAYIR|%63|%59|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|TEPE>TEPE>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|%54|1|HAYIR|%19|EVET|%46|2|EVET|%33|EVET|%28|1|HAYIR|%16|EVET|%41|1|HAYIR|%21|EVET|%39|1|HAYIR|%21|EVET|%42|1|HAYIR|%23|EVET|%69|1|HAYIR|%28|EVET|%49|4|HAYIR|%23|EVET|%29|3|HAYIR|%23|EVET|%27|1|HAYIR|%23|EVET|%40|1|HAYIR|%21|EVET|%66|2|EVET|%14|EVET|%28|3|HAYIR|%4|EVET|%27
631|2026-08-17 18:38:08|2|4/1|HAYIR|%43|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%41|T•K|EVET|%63|%57|VADI_YON|FRAGMENTARY_2|AZALIS>VADI>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%59|1|HAYIR|%18|EVET|%41|4|HAYIR|%34|EVET|%30|1|HAYIR|%16|EVET|%41|1|HAYIR|%20|EVET|%36|1|HAYIR|%20|EVET|%42|1|HAYIR|%23|EVET|%51|4|HAYIR|%27|EVET|%30|4|HAYIR|%23|EVET|%30|3|EVET|%23|EVET|%27|1|HAYIR|%23|EVET|%35|1|HAYIR|%20|EVET|%97|2|HAYIR|%16|EVET|%28|3|EVET|%4|EVET|%28
632|2026-08-17 18:38:09|3|2/4|EVET|%44|%22|HAYIR|%21|%55|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%31|T•K|EVET|%63|%50|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE||HAYIR|%83|4|HAYIR|%18|EVET|%31|2|EVET|%34|EVET|%29|1|HAYIR|%15|EVET|%34|1|HAYIR|%20|EVET|%27|4|HAYIR|%20|EVET|%29|1|HAYIR|%22|EVET|%39|2|EVET|%27|EVET|%31|4|HAYIR|%22|EVET|%48|2|EVET|%25|EVET|%29|4|HAYIR|%22|EVET|%31|1|HAYIR|%20|EVET|%92|2|EVET|%15|EVET|%28|2|EVET|%6|EVET|%31
633|2026-08-17 18:38:11|2|4/1|HAYIR|%44|%22|HAYIR|%21|%39|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%42|C•B|EVET|%63|%56|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%68|4|HAYIR|%17|EVET|%42|4|HAYIR|%35|EVET|%28|4|HAYIR|%15|EVET|%30|4|HAYIR|%20|EVET|%31|4|HAYIR|%20|EVET|%47|4|HAYIR|%22|EVET|%65|3|HAYIR|%28|EVET|%30|4|HAYIR|%22|EVET|%29|3|HAYIR|%26|EVET|%28|4|HAYIR|%22|EVET|%36|3|HAYIR|%20|EVET|%54|2|EVET|%17|EVET|%28|4|HAYIR|%8|EVET|%30
634|2026-08-17 18:38:12|2|2/1|EVET|%44|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%34|T•K|EVET|%63|%52|BLOK_TERS_TEKRAR|FRAGMENTARY_2|BLOK_DUZ>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%52|2|EVET|%17|EVET|%34|2|EVET|%34|EVET|%42|1|HAYIR|%15|EVET|%34|3|HAYIR|%19|EVET|%36|4|HAYIR|%19|EVET|%30|2|EVET|%21|EVET|%31|3|HAYIR|%28|EVET|%35|2|EVET|%21|EVET|%30|3|HAYIR|%26|EVET|%28|2|EVET|%21|EVET|%29|1|HAYIR|%19|EVET|%48|4|HAYIR|%19|EVET|%26|3|HAYIR|%8|EVET|%29
635|2026-08-17 18:38:13|2|1/4|HAYIR|%44|%22|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%39|T•B|HAYIR|%63|%54|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%59|2|EVET|%19|EVET|%39|1|HAYIR|%36|EVET|%28|2|EVET|%14|EVET|%42|1|HAYIR|%19|EVET|%33|2|EVET|%19|EVET|%46|2|EVET|%23|EVET|%57|3|HAYIR|%27|EVET|%45|1|HAYIR|%23|EVET|%28|3|HAYIR|%25|EVET|%27|2|EVET|%23|EVET|%32|3|HAYIR|%19|EVET|%69|4|HAYIR|%19|EVET|%26|3|HAYIR|%8|EVET|%29
636|2026-08-17 18:38:14|2|2/1|HAYIR|%44|%22|EVET|%21|%40|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%50|T•K|EVET|%63|%58|VADI_YON|FRAGMENTARY_2|BLOK_TERS>BLOK_DUZ>VADI|PATTERN_BREAK:0,59|EVET|%62|1|EVET|%20|EVET|%50|2|HAYIR|%35|EVET|%36|1|EVET|%16|EVET|%39|1|EVET|%18|EVET|%41|1|EVET|%20|EVET|%40|1|EVET|%25|EVET|%80|1|EVET|%27|EVET|%49|2|HAYIR|%22|EVET|%34|3|HAYIR|%25|EVET|%27|1|EVET|%25|EVET|%42|1|EVET|%18|EVET|%99|4|HAYIR|%18|EVET|%26|3|HAYIR|%8|EVET|%28
637|2026-08-17 18:38:16|1|1/2|HAYIR|%44|%22|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%38|T•B|EVET|%63|%51|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_TERS>BLOK_DUZ>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%58|1|HAYIR|%22|EVET|%38|1|HAYIR|%34|EVET|%28|3|EVET|%18|EVET|%47|3|EVET|%20|EVET|%41|3|EVET|%22|EVET|%39|3|EVET|%26|EVET|%60|4|HAYIR|%28|EVET|%32|4|HAYIR|%22|EVET|%34|1|HAYIR|%24|EVET|%28|3|EVET|%26|EVET|%35|1|HAYIR|%20|EVET|%64|4|HAYIR|%18|EVET|%26|1|HAYIR|%8|EVET|%35
638|2026-08-17 18:38:17|3|2/1|EVET|%44|%22|HAYIR|%21|%46|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%51|C•K|EVET|%64|%58|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>BLOK_DUZ>TEPE|PATTERN_BREAK:0,59|EVET|%71|2|EVET|%22|EVET|%51|2|EVET|%34|EVET|%43|2|EVET|%20|EVET|%59|2|EVET|%22|EVET|%28|2|EVET|%24|EVET|%46|2|EVET|%28|EVET|%79|2|EVET|%28|EVET|%33|2|EVET|%22|EVET|%38|2|EVET|%24|EVET|%29|2|EVET|%28|EVET|%46|2|EVET|%20|EVET|%61|4|HAYIR|%18|EVET|%26|4|HAYIR|%8|EVET|%32
639|2026-08-17 18:38:18|2|1/2|EVET|%44|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%26|%46|C•K|EVET|%64|%55|BLOK_TERS_TEKRAR|FRAGMENTARY_2|VADI>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%63|1|EVET|%23|EVET|%46|1|EVET|%35|EVET|%28|1|EVET|%21|EVET|%75|2|HAYIR|%23|EVET|%38|1|EVET|%25|EVET|%41|1|EVET|%29|EVET|%82|3|HAYIR|%29|EVET|%29|3|HAYIR|%23|EVET|%32|3|HAYIR|%25|EVET|%27|1|EVET|%29|EVET|%42|3|HAYIR|%21|EVET|%60|4|HAYIR|%17|EVET|%25|4|HAYIR|%7|EVET|%29
640|2026-08-17 18:38:20|1|3/2|HAYIR|%44|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%53|C•B|HAYIR|%63|%51|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%25|EVET|%53|2|HAYIR|%36|EVET|%33|3|HAYIR|%23|EVET|%63|2|HAYIR|%23|EVET|%34|3|HAYIR|%26|EVET|%40|3|HAYIR|%30|EVET|%74|4|HAYIR|%28|EVET|%31|4|HAYIR|%23|EVET|%34|1|EVET|%25|EVET|%28|3|HAYIR|%30|EVET|%42|2|HAYIR|%21|EVET|%93|2|HAYIR|%17|EVET|%29|1|EVET|%7|EVET|%34
641|2026-08-17 18:38:21|1|4/1|HAYIR|%44|%22|EVET|%21|%34|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%31|C•B|HAYIR|%63|%57|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%49|4|HAYIR|%24|EVET|%31|4|HAYIR|%35|EVET|%30|4|HAYIR|%22|EVET|%42|4|HAYIR|%22|EVET|%33|1|EVET|%26|EVET|%42|3|HAYIR|%30|EVET|%29|4|HAYIR|%28|EVET|%34|1|EVET|%22|EVET|%33|1|EVET|%26|EVET|%28|4|HAYIR|%30|EVET|%30|4|HAYIR|%20|EVET|%78|2|HAYIR|%16|EVET|%29|3|HAYIR|%9|EVET|%27
642|2026-08-17 18:38:23|1|2/3|HAYIR|%44|%22|EVET|%21|%29|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%36|T•K|EVET|%63|%53|BLOK_TERS_TEKRAR|FRAGMENTARY_2|DONGU_TERS>BLOK_TERS>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%34|2|HAYIR|%24|EVET|%36|2|HAYIR|%35|EVET|%60|1|HAYIR|%22|EVET|%45|2|HAYIR|%22|EVET|%31|3|EVET|%27|EVET|%39|3|EVET|%29|EVET|%41|2|HAYIR|%27|EVET|%45|1|HAYIR|%24|EVET|%32|1|HAYIR|%27|EVET|%29|2|HAYIR|%29|EVET|%34|2|HAYIR|%20|EVET|%92|2|HAYIR|%16|EVET|%28|1|HAYIR|%9|EVET|%28
643|2026-08-17 18:38:25|3|4/2|HAYIR|%44|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%34|C•B|HAYIR|%63|%52|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%51|4|HAYIR|%23|EVET|%34|1|EVET|%34|EVET|%29|4|HAYIR|%21|EVET|%38|2|HAYIR|%21|EVET|%32|4|HAYIR|%29|EVET|%45|4|HAYIR|%30|EVET|%48|2|HAYIR|%27|EVET|%34|4|HAYIR|%23|EVET|%32|2|HAYIR|%27|EVET|%30|4|HAYIR|%29|EVET|%35|3|HAYIR|%20|EVET|%79|2|HAYIR|%16|EVET|%29|4|HAYIR|%9|EVET|%31
644|2026-08-17 18:38:26|1|1/3|HAYIR|%44|%22|EVET|%21|%25|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%29|C•K|HAYIR|%63|%55|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%23|EVET|%29|2|HAYIR|%35|EVET|%33|2|HAYIR|%21|EVET|%29|4|HAYIR|%21|EVET|%29|3|EVET|%28|EVET|%34|3|EVET|%30|EVET|%42|4|HAYIR|%26|EVET|%31|1|HAYIR|%23|EVET|%32|1|HAYIR|%26|EVET|%29|1|HAYIR|%28|EVET|%26|3|EVET|%19|EVET|%78|2|HAYIR|%16|EVET|%28|2|HAYIR|%8|EVET|%30
645|2026-08-17 18:38:26|3|4/2|HAYIR|%44|%22|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%42|C•B|EVET|%63|%54|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%51|4|HAYIR|%22|EVET|%42|1|HAYIR|%35|EVET|%28|4|HAYIR|%21|EVET|%53|4|HAYIR|%21|EVET|%37|4|HAYIR|%29|EVET|%36|4|HAYIR|%31|EVET|%54|2|HAYIR|%26|EVET|%33|4|HAYIR|%22|EVET|%37|2|HAYIR|%26|EVET|%30|4|HAYIR|%28|EVET|%38|4|HAYIR|%21|EVET|%99|2|HAYIR|%15|EVET|%28|4|HAYIR|%8|EVET|%30
646|2026-08-17 18:38:27|3|2/1|HAYIR|%44|%22|EVET|%21|%43|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%40|T•K|EVET|%63|%51|VADI_YON|FRAGMENTARY_2|TEKRAR>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%72|2|HAYIR|%22|EVET|%40|2|HAYIR|%34|EVET|%33|4|HAYIR|%20|EVET|%52|1|EVET|%20|EVET|%32|2|HAYIR|%29|EVET|%45|2|HAYIR|%31|EVET|%53|1|EVET|%25|EVET|%31|2|HAYIR|%22|EVET|%33|2|HAYIR|%25|EVET|%29|2|HAYIR|%27|EVET|%36|2|HAYIR|%20|EVET|%95|2|HAYIR|%15|EVET|%28|2|HAYIR|%8|EVET|%32
647|2026-08-17 18:38:28|1|4/1|HAYIR|%44|%22|EVET|%22|%55|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%35|T•B|EVET|%63|%55|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>BLOK_TERS>TEPE||HAYIR|%60|4|HAYIR|%22|EVET|%35|1|EVET|%33|EVET|%27|4|HAYIR|%20|EVET|%45|2|HAYIR|%22|EVET|%30|4|HAYIR|%28|EVET|%44|4|HAYIR|%30|EVET|%48|4|HAYIR|%27|EVET|%30|1|EVET|%22|EVET|%34|1|EVET|%25|EVET|%28|4|HAYIR|%27|EVET|%36|3|HAYIR|%20|EVET|%56|4|HAYIR|%15|EVET|%25|2|HAYIR|%8|EVET|%29
648|2026-08-17 18:38:29|1|2/1|HAYIR|%44|%22|HAYIR|%22|%41|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%35|T•K|HAYIR|%63|%54|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%64|2|HAYIR|%21|EVET|%35|2|HAYIR|%35|EVET|%30|2|HAYIR|%20|EVET|%53|1|HAYIR|%21|EVET|%29|2|HAYIR|%28|EVET|%44|2|HAYIR|%30|EVET|%53|4|EVET|%26|EVET|%34|1|HAYIR|%23|EVET|%32|1|HAYIR|%26|EVET|%29|2|HAYIR|%26|EVET|%34|3|HAYIR|%20|EVET|%90|4|EVET|%15|EVET|%25|3|HAYIR|%8|EVET|%29
649|2026-08-17 18:38:30|4|3/2|HAYIR|%44|%22|EVET|%22|%25|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%34|C•K|EVET|%63|%50|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|DONGU_TERS>TEPE>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%35|3|HAYIR|%21|EVET|%34|4|HAYIR|%34|EVET|%29|3|HAYIR|%19|EVET|%54|4|HAYIR|%21|EVET|%37|3|HAYIR|%27|EVET|%41|3|HAYIR|%29|EVET|%60|2|EVET|%27|EVET|%31|4|HAYIR|%22|EVET|%38|3|HAYIR|%26|EVET|%27|3|HAYIR|%26|EVET|%35|3|HAYIR|%19|EVET|%72|4|HAYIR|%16|EVET|%25|3|HAYIR|%8|EVET|%27
650|2026-08-17 18:38:31|2|3/2|EVET|%44|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%40|T•B|EVET|%63|%54|TEPE_YON|FRAGMENTARY_2|TEPE>BLOK_TERS>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%37|3|EVET|%20|EVET|%40|2|HAYIR|%33|EVET|%27|3|EVET|%19|EVET|%64|1|HAYIR|%20|EVET|%28|3|EVET|%27|EVET|%32|3|EVET|%29|EVET|%46|3|EVET|%29|EVET|%29|3|EVET|%22|EVET|%31|3|EVET|%25|EVET|%27|3|EVET|%25|EVET|%35|1|HAYIR|%19|EVET|%59|
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 651 ve sonrası)

```
↳ 4|HAYIR|%16|EVET|%25|3|EVET|%8|EVET|%30
652 651|2026-08-17 18:38:32|3|4/2|HAYIR|%44|%22|HAYIR|%22|%33|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%36|C•K|EVET|%63|%56|BLOK_DUZ_TEKRAR|FRAGMENTARY_
↳ 2|BLOK_TERS>VADI>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%48|2|HAYIR|%22|EVET|%36|1|EVET|%33|EVET|%37|4|HAYIR|%20|EVET|%40|4|HAYIR|%20|EVET|%30|2|HAY
↳ IR|%28|EVET|%32|2|HAYIR|%30|EVET|%36|2|HAYIR|%30|EVET|%33|2|HAYIR|%23|EVET|%34|2|HAYIR|%26|EVET|%29|2|HAYIR|%26|EVET|%31|1|EVET|%19|EVET|%86|
↳ 4|HAYIR|%15|EVET|%25|2|HAYIR|%9|EVET|%32
653 652|2026-08-17 18:38:34|1|4/2|HAYIR|%44|%22|EVET|%22|%26|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%29|C•K|EVET|%64|%52|VADI_YON|FRAGMENTARY_2|TEKRAR
↳ >TEPE>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%31|4|HAYIR|%21|EVET|%29|2|EVET|%34|EVET|%31|2|EVET|%20|EVET|%32|1|HAYIR|%20|EVET|%33|4|
↳ HAYIR|%28|EVET|%43|4|HAYIR|%29|EVET|%36|4|HAYIR|%29|EVET|%30|1|HAYIR|%23|EVET|%32|1|HAYIR|%26|EVET|%29|4|HAYIR|%26|EVET|%28|2|EVET|%20|EVET|%
↳ 46|4|HAYIR|%15|EVET|%25|2|EVET|%9|EVET|%29
654 653|2026-08-17 18:38:35|2|4/1|EVET|%44|%22|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%38|T•K|HAYIR|%63|%50|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%38|4|EVET|%21|EVET|%38|1|HAYIR|%35|EVET|%32|4|EVET|%21|EVET|%39|1|HAYIR|%20|EVET|%34|4|EVET|%27|EVET|%
↳ 31|4|EVET|%29|EVET|%45|3|HAYIR|%29|EVET|%30|4|EVET|%23|EVET|%29|3|HAYIR|%26|EVET|%27|4|EVET|%26|EVET|%29|2|HAYIR|%21|EVET|%46|2|HAYIR|%15|EVE
↳ T|%28|4|EVET|%10|EVET|%33
655 654|2026-08-17 18:38:36|4|2/4|EVET|%44|%22|HAYIR|%22|%56|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%26|%30|T•B|HAYIR|%63|%54|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>VADI>DONGU_TERS||HAYIR|%76|2|EVET|%22|EVET|%30|2|EVET|%34|EVET|%31|2|EVET|%22|EVET|%42|3|HAYIR|%19|EVET|%38|2|EVET|%28|EVET|%28|3|HAYIR|
↳ %30|EVET|%29|2|EVET|%28|EVET|%32|2|EVET|%24|EVET|%36|3|HAYIR|%25|EVET|%27|2|EVET|%27|EVET|%31|2|EVET|%21|EVET|%67|2|EVET|%15|EVET|%28|1|HAYIR
↳ |%12|EVET|%26
656 655|2026-08-17 18:38:37|2|1/2|HAYIR|%44|%22|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%36|T•B|EVET|%63|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DONGU>TEPE>DONGU_TERS||HAYIR|%38|3|HAYIR|%23|EVET|%36|4|EVET|%35|EVET|%28|3|HAYIR|%23|EVET|%30|2|HAYIR|%19|EVET|%37|2|HAYIR|%29|EVET|%45|2|H
↳ AYIR|%29|EVET|%36|3|HAYIR|%29|EVET|%30|1|HAYIR|%25|EVET|%32|3|HAYIR|%25|EVET|%27|3|HAYIR|%28|EVET|%26|1|HAYIR|%22|EVET|%90|2|HAYIR|%16|EVET|%
↳ 28|3|HAYIR|%11|EVET|%31
657 656|2026-08-17 18:38:38|4|2/4|HAYIR|%44|%22|HAYIR|%22|%43|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%29|T•K|EVET|%63|%58|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%72|2|HAYIR|%23|EVET|%29|2|HAYIR|%36|EVET|%31|4|HAYIR|%23|EVET|%48|3|EVET|%19|EVET|%30|2|HAYIR|
↳ %29|EVET|%45|2|HAYIR|%29|EVET|%33|2|HAYIR|%29|EVET|%33|2|HAYIR|%25|EVET|%41|2|HAYIR|%25|EVET|%27|2|HAYIR|%27|EVET|%30|1|HAYIR|%22|EVET|%74|2|
↳ HAYIR|%16|EVET|%28|2|HAYIR|%11|EVET|%28
658 657|2026-08-17 18:38:40|3|4/1|HAYIR|%44|%22|EVET|%22|%27|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%40|T•K|EVET|%63|%53|DONGU_TERS_YON|FRAGMENTARY_2|
↳ BLOK_TERS>BLOK_DUZ>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%23|EVET|%40|1|EVET|%36|EVET|%30|2|HAYIR|%23|EVET|%56|2|HAYIR|%20|EVET|%32|
↳ 4|HAYIR|%28|EVET|%44|2|HAYIR|%28|EVET|%39|2|HAYIR|%28|EVET|%32|2|HAYIR|%24|EVET|%29|2|HAYIR|%24|EVET|%29|2|HAYIR|%27|EVET|%33|2|HAYIR|%21|EVE
↳ T|%81|2|HAYIR|%15|EVET|%28|2|HAYIR|%11|EVET|%30
659 658|2026-08-17 18:38:40|1|2/3|EVET|%44|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%33|C•B|EVET|%64|%59|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%59|4|HAYIR|%22|EVET|%33|2|EVET|%37|EVET|%34|4|HAYIR|%22|EVET|%62|3|HAYIR|%20|EVET|%34|2|EVET|%28|EVET|
↳ %32|4|HAYIR|%28|EVET|%39|4|HAYIR|%28|EVET|%29|1|HAYIR|%24|EVET|%32|1|HAYIR|%24|EVET|%28|4|HAYIR|%27|EVET|%33|4|HAYIR|%21|EVET|%77|2|EVET|%15|
↳ EVET|%28|2|EVET|%11|EVET|%30
660 659|2026-08-17 18:38:41|2|4/1|HAYIR|%44|%22|EVET|%22|%48|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%43|C•B|HAYIR|%63|%55|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>BLOK_DUZ>TEPE||HAYIR|%57|4|HAYIR|%22|EVET|%43|1|EVET|%38|EVET|%30|4|HAYIR|%22|EVET|%39|2|HAYIR|%19|EVET|%30|2|HAYIR|%29|EVET|%45|4|HAYIR|
↳ %28|EVET|%36|4|HAYIR|%28|EVET|%30|4|HAYIR|%23|EVET|%28|3|HAYIR|%23|EVET|%27|4|HAYIR|%26|EVET|%29|4|HAYIR|%21|EVET|%55|2|HAYIR|%16|EVET|%28|4|
↳ HAYIR|%12|EVET|%36
661 660|2026-08-17 18:38:42|1|2/3|HAYIR|%45|%22|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%33|T•B|EVET|%63|%52|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ VADI>DONGU|PATTERN_BREAK:0,59|EVET|%60|1|HAYIR|%22|EVET|%33|2|HAYIR|%38|EVET|%30|1|HAYIR|%22|EVET|%33|4|HAYIR|%19|EVET|%46|4|HAYIR|%29|EVET|%
↳ 43|4|HAYIR|%27|EVET|%56|4|HAYIR|%27|EVET|%29|1|HAYIR|%23|EVET|%30|1|HAYIR|%23|EVET|%28|4|HAYIR|%26|EVET|%29|4|HAYIR|%20|EVET|%53|4|HAYIR|%16|
↳ EVET|%25|1|HAYIR|%12|EVET|%35
662 661|2026-08-17 18:38:44|3|4/1|HAYIR|%44|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|C•K|HAYIR|%63|%56|DONGU_YON|FRAGMENTARY_2|DON
↳ GU>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%21|EVET|%31|4|HAYIR|%38|EVET|%30|2|HAYIR|%21|EVET|%37|2|HAYIR|%19|EVET|%32|2|HAYIR|%28|EVE
↳ T|%34|2|HAYIR|%27|EVET|%42|2|HAYIR|%27|EVET|%32|2|HAYIR|%23|EVET|%29|2|HAYIR|%23|EVET|%29|2|HAYIR|%26|EVET|%30|2|HAYIR|%20|EVET|%66|4|HAYIR|%
↳ 16|EVET|%25|4|HAYIR|%12|EVET|%29
663 662|2026-08-17 18:38:45|3|2/3|EVET|%45|%22|HAYIR|%22|%59|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%38|T•K|EVET|%63|%58|TEPE_YON|FRAGMENTARY_2|VADI>DO
↳ NGU_TERS>TEPE||HAYIR|%88|2|EVET|%21|EVET|%38|2|EVET|%37|EVET|%30|4|HAYIR|%21|EVET|%52|1|HAYIR|%18|EVET|%45|2|EVET|%28|EVET|%32|2|EVET|%27|EVE
↳ T|%45|1|HAYIR|%27|EVET|%35|2|EVET|%22|EVET|%34|2|EVET|%22|EVET|%28|2|EVET|%25|EVET|%31|2|EVET|%20|EVET|%93|4|HAYIR|%16|EVET|%25|1|HAYIR|%12|E
↳ VET|%31
664 663|2026-08-17 18:38:46|2|1/4|EVET|%45|%22|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%30|T•B|EVET|%64|%54|VADI_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_2>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%56|3|HAYIR|%22|EVET|%30|1|EVET|%38|EVET|%29|4|HAYIR|%21|EVET|%35|2|HAYIR|%18|EVET|%33|3|HA
↳ YIR|%29|EVET|%42|3|HAYIR|%28|EVET|%57|3|HAYIR|%26|EVET|%29|3|HAYIR|%24|EVET|%32|3|HAYIR|%24|EVET|%27|3|HAYIR|%26|EVET|%31|4|HAYIR|%21|EVET|%5
↳ 7|4|HAYIR|%16|EVET|%25|4|HAYIR|%12|EVET|%29
665 664|2026-08-17 18:38:47|1|2/3|HAYIR|%45|%22|HAYIR|%22|%59|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%37|C•B|EVET|%64|%53|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>DONGU_TERS>VADI||HAYIR|%76|1|HAYIR|%22|EVET|%37|2|HAYIR|%39|EVET|%36|1|HAYIR|%21|EVET|%31|4|EVET|%18|EVET|%29|1|HAYIR|%28|EVET|%44|1|HAY
↳ IR|%27|EVET|%45|4|EVET|%26|EVET|%28|3|HAYIR|%23|EVET|%27|1|HAYIR|%23|EVET|%28|1|HAYIR|%26|EVET|%31|2|HAYIR|%21|EVET|%88|1|HAYIR|%15|EVET|%25|
↳ 1|HAYIR|%11|EVET|%34
666 665|2026-08-17 18:38:48|4|4/3|HAYIR|%45|%22|EVET|%22|%31|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%37|C•B|EVET|%64|%52|DONGU_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%57|4|HAYIR|%22|EVET|%37|1|HAYIR|%38|EVET|%28|4|HAYIR|%20|EVET|%81|4|HAYIR|%19|EVET|%44|4|HAYIR|%28|
↳ EVET|%43|4|HAYIR|%27|EVET|%65|2|HAYIR|%27|EVET|%32|4|HAYIR|%23|EVET|%32|3|EVET|%23|EVET|%27|4|HAYIR|%25|EVET|%39|1|HAYIR|%20|EVET|%54|4|HAYIR
↳ |%15|EVET|%25|2|HAYIR|%11|EVET|%27
667 666|2026-08-17 18:38:51|3|2/3|HAYIR|%45|%22|EVET|%22|%42|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%38|C•B|EVET|%64|%53|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ VADI>DONGU|PATTERN_BREAK:0,59|EVET|%75|2|HAYIR|%21|EVET|%38|2|HAYIR|%38|EVET|%30|2|HAYIR|%20|EVET|%42|4|HAYIR|%19|EVET|%31|2|HAYIR|%28|EVET|%
↳ 29|2|HAYIR|%26|EVET|%38|2|HAYIR|%26|EVET|%32|2|HAYIR|%23|EVET|%33|2|HAYIR|%24|EVET|%29|2|HAYIR|%25|EVET|%33|2|HAYIR|%20|EVET|%65|2|HAYIR|%15|
↳ EVET|%28|2|HAYIR|%11|EVET|%30
668 667|2026-08-17 18:38:52|3|4/1|HAYIR|%45|%22|EVET|%22|%35|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%38|C•B|HAYIR|%64|%52|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%57|1|EVET|%21|EVET|%38|4|HAYIR|%37|EVET|%30|3|HAYIR|%20|EVET|%37|1|EVET|%18|EVET|%34|3|HAYIR|%27|EVET|%43
↳ |1|EVET|%26|EVET|%32|1|EVET|%26|EVET|%32|1|EVET|%22|EVET|%33|2|HAYIR|%24|EVET|%29|1|EVET|%25|EVET|%29|1|EVET|%20|EVET|%86|2|HAYIR|%15|EVET|%2
↳ 8|2|HAYIR|%11|EVET|%32
669 668|2026-08-17 18:38:53|1|2/4|HAYIR|%45|%22|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%33|T•B|EVET|%64|%54|DONGU_YON|FRAGMENTARY_2|DONGU
↳ _TERS>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%65|1|HAYIR|%22|EVET|%33|2|HAYIR|%37|EVET|%29|1|HAYIR|%20|EVET|%41|2|HAYIR|%20|EVET|%32|1|HAYIR|%27
↳ |EVET|%25|2|HAYIR|%27|EVET|%31|4|EVET|%27|EVET|%29|1|HAYIR|%23|EVET|%31|1|HAYIR|%23|EVET|%28|2|HAYIR|%26|EVET|%26|3|HAYIR|%21|EVET|%56|2|HAYI
↳ R|%15|EVET|%28|2|HAYIR|%11|EVET|%32
670 669|2026-08-17 18:38:53|4|4/1|HAYIR|%45|%22|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%38|T•B|EVET|%64|%54|VADI_YON|FRAGMENTARY_2|DONGU_
↳ TERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%56|3|EVET|%22|EVET|%38|4|HAYIR|%37|EVET|%28|3|EVET|%19|EVET|%69|1|HAYIR|%19|EVET|%38|3|EVET|%27|EVET
↳ |%42|3|EVET|%27|EVET|%65|2|HAYIR|%28|EVET|%31|4|HAYIR|%23|EVET|%30|3|EVET|%23|EVET|%28|3|EVET|%25|EVET|%37|3|EVET|%20|EVET|%86|2|HAYIR|%14|EV
↳ ET|%28|3|EVET|%11|EVET|%29
671 670|2026-08-17 18:38:54|3|2/4|EVET|%45|%22|HAYIR|%22|%64|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%38|C•K|EVET|%64|%59|DONGU_YON|FRAGMENTARY_2|VADI>T
↳ EPE>DONGU||HAYIR|%91|2|EVET|%23|EVET|%38|2|EVET|%36|EVET|%31|2|EVET|%20|EVET|%45|2|EVET|%19|EVET|%31|2|EVET|%28|EVET|%43|2|EVET|%28|EVET|%54|
↳ 2|EVET|%28|EVET|%31|2|EVET|%23|EVET|%27|2|EVET|%24|EVET|%28|2|EVET|%26|EVET|%36|2|EVET|%21|EVET|%65|2|EVET|%14|EVET|%28|2|EVET|%12|EVET|%29
672 671|2026-08-17 18:38:55|2|1/4|EVET|%45|%22|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%41|T•K|EVET|%64|%50|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%24|EVET|%41|1|EVET|%37|EVET|%28|2|HAYIR|%21|EVET|%49|2|HAYIR|%20|EVET|%38|2|HAYIR|%
↳ 28|EVET|%44|2|HAYIR|%28|EVET|%71|3|HAYIR|%28|EVET|%29|3|HAYIR|%24|EVET|%31|3|HAYIR|%25|EVET|%27|2|HAYIR|%27|EVET|%36|2|HAYIR|%22|EVET|%35|2|H
↳ AYIR|%15|EVET|%28|4|HAYIR|%13|EVET|%28
673 672|2026-08-17 18:38:55|1|2/3|HAYIR|%45|%22|HAYIR|%22|%57|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%31|T•K|EVET|%64|%51|DONGU_YON|FRAGMENTARY_2|DONG
↳ U>VADI>DONGU||HAYIR|%80|2|HAYIR|%23|EVET|%31|2|HAYIR|%38|EVET|%31|4|HAYIR|%21|EVET|%41|4|HAYIR|%20|EVET|%31|2|HAYIR|%28|EVET|%44|2|HAYIR|%28|
↳ EVET|%49|4|HAYIR|%28|EVET|%30|3|HAYIR|%23|EVET|%27|1|EVET|%25|EVET|%28|2|HAYIR|%27|EVET|%30|2|HAYIR|%22|EVET|%88|2|HAYIR|%15|EVET|%28|1|EVET|
↳ %13|EVET|%33
674 673|2026-08-17 18:38:56|1|1/4|HAYIR|%45|%22|HAYIR|%22|%33|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%29|T•K|EVET|%64|%52|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|DONGU>DONGU>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%51|4|HAYIR|%23|EVET|%29|1|HAYIR|%37|EVET|%39|1|HAYIR|%21|EVET|%39|4|HAYIR
↳ |%20|EVET|%32|4|HAYIR|%28|EVET|%42|1|HAYIR|%28|EVET|%31|4|HAYIR|%28|EVET|%35|1|HAYIR|%23|EVET|%37|1|HAYIR|%25|EVET|%28|4|HAYIR|%27|EVET|%31|4
↳ |HAYIR|%22|EVET|%78|1|HAYIR|%15|EVET|%25|3|EVET|%14|EVET|%28
675 674|2026-08-17 18:39:15|3|3/2|HAYIR|%45|%22|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%29|C•K|EVET|%64|%55|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >DONGU>DONGU|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%44|3|HAYIR|%23|EVET|%29|2|HAYIR|%37|EVET|%29|1|HAYIR|%20|EVET|%34|4|EVET|%19|EVET|%33
↳ |1|HAYIR|%27|EVET|%45|1|HAYIR|%27|EVET|%37|2|HAYIR|%27|EVET|%32|2|HAYIR|%23|EVET|%34|2|HAYIR|%25|EVET|%29|1|HAYIR|%26|EVET|%29|3|HAYIR|%22|EV
↳ ET|%76|1|HAYIR|%15|EVET|%25|4|EVET|%15|EVET|%27
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 676 ve sonrası)

```csv
675|2026-08-17 18:39:17|4|3/2|HAYIR|%45|%22|EVET|%22|%32|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%40|T•K|EVET|%64|%61|TEPE_YON|FRAGMENTARY_2|VADI>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%22|EVET|%40|1|HAYIR|%36|EVET|%30|3|HAYIR|%20|EVET|%61|2|EVET|%20|EVET|%35|3|HAYIR|%27|EVET|%43|3|HAYIR|%27|EVET|%50|3|HAYIR|%27|EVET|%31|3|HAYIR|%22|EVET|%34|3|HAYIR|%25|EVET|%28|3|HAYIR|%26|EVET|%36|3|HAYIR|%21|EVET|%95|1|HAYIR|%14|EVET|%25|3|HAYIR|%16|EVET|%31
676|2026-08-17 18:39:18|2|3/2|HAYIR|%45|%22|HAYIR|%22|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%38|T•K|HAYIR|%64|%55|VADI_YON|FRAGMENTARY_2|DONGU_TERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%22|EVET|%38|2|HAYIR|%36|EVET|%30|3|HAYIR|%20|EVET|%47|2|HAYIR|%21|EVET|%40|2|HAYIR|%27|EVET|%31|3|HAYIR|%27|EVET|%36|3|HAYIR|%27|EVET|%28|3|HAYIR|%22|EVET|%33|3|HAYIR|%25|EVET|%26|3|HAYIR|%26|EVET|%31|3|HAYIR|%21|EVET|%83|1|HAYIR|%14|EVET|%25|3|HAYIR|%15|EVET|%30
677|2026-08-17 18:39:19|4|1/4|HAYIR|%45|%22|EVET|%22|%38|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|T•K|HAYIR|%64|%54|VADI_YON|FRAGMENTARY_2|DONGU>VADI>VADI||HAYIR|%52|2|HAYIR|%22|EVET|%31|1|HAYIR|%35|EVET|%29|4|EVET|%20|EVET|%37|3|HAYIR|%21|EVET|%31|2|HAYIR|%26|EVET|%27|4|EVET|%26|EVET|%30|2|HAYIR|%26|EVET|%32|2|HAYIR|%22|EVET|%30|3|HAYIR|%24|EVET|%28|3|HAYIR|%25|EVET|%25|1|HAYIR|%21|EVET|%73|4|EVET|%14|EVET|%25|3|HAYIR|%15|EVET|%28
678|2026-08-17 18:39:20|4|2/4|HAYIR|%45|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%45|T•K|EVET|%64|%66|VADI_YON|FRAGMENTARY_2|VADI>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%22|EVET|%45|2|HAYIR|%35|EVET|%30|1|HAYIR|%21|EVET|%43|1|HAYIR|%21|EVET|%31|1|HAYIR|%26|EVET|%44|1|HAYIR|%27|EVET|%71|1|HAYIR|%26|EVET|%30|2|HAYIR|%22|EVET|%38|3|EVET|%24|EVET|%28|1|HAYIR|%25|EVET|%36|1|HAYIR|%21|EVET|%94|4|HAYIR|%15|EVET|%25|3|EVET|%15|EVET|%27
679|2026-08-17 18:39:21|3|1/4|HAYIR|%45|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%32|T•K|EVET|%64|%52|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%41|2|HAYIR|%21|EVET|%32|1|HAYIR|%35|EVET|%28|1|HAYIR|%20|EVET|%33|4|HAYIR|%20|EVET|%32|3|EVET|%26|EVET|%43|3|EVET|%27|EVET|%29|2|HAYIR|%26|EVET|%32|1|HAYIR|%21|EVET|%32|2|HAYIR|%25|EVET|%29|2|HAYIR|%25|EVET|%26|1|HAYIR|%20|EVET|%71|2|HAYIR|%15|EVET|%28|2|HAYIR|%16|EVET|%31
680|2026-08-17 18:39:21|3|2/1|EVET|%45|%22|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%46|C•K|EVET|%64|%57|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%42|1|HAYIR|%21|EVET|%46|2|EVET|%34|EVET|%32|1|HAYIR|%20|EVET|%41|1|HAYIR|%20|EVET|%34|3|HAYIR|%27|EVET|%43|1|HAYIR|%28|EVET|%40|1|HAYIR|%26|EVET|%34|2|EVET|%21|EVET|%30|2|EVET|%25|EVET|%28|1|HAYIR|%25|EVET|%32|1|HAYIR|%20|EVET|%89|2|EVET|%15|EVET|%28|1|HAYIR|%16|EVET|%32
681|2026-08-17 18:39:23|2|4/1|HAYIR|%45|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%32|C•B|EVET|%64|%52|TEPE_YON|FRAGMENTARY_2|VADI>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%28|4|HAYIR|%21|EVET|%32|1|HAYIR|%35|EVET|%32|4|HAYIR|%20|EVET|%35|4|HAYIR|%20|EVET|%39|4|HAYIR|%26|EVET|%43|4|HAYIR|%27|EVET|%49|4|HAYIR|%25|EVET|%29|3|EVET|%22|EVET|%31|3|EVET|%25|EVET|%26|4|HAYIR|%24|EVET|%34|4|HAYIR|%20|EVET|%56|2|HAYIR|%16|EVET|%28|4|HAYIR|%16|EVET|%28
682|2026-08-17 18:39:24|3|2/1|HAYIR|%45|%22|EVET|%22|%42|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%38|T•K|EVET|%64|%55|DONGU_TERS_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%69|2|HAYIR|%21|EVET|%38|2|HAYIR|%35|EVET|%29|2|HAYIR|%20|EVET|%29|4|HAYIR|%20|EVET|%39|4|HAYIR|%26|EVET|%35|4|HAYIR|%27|EVET|%42|2|HAYIR|%25|EVET|%32|2|HAYIR|%23|EVET|%33|2|HAYIR|%26|EVET|%29|2|HAYIR|%24|EVET|%31|2|HAYIR|%20|EVET|%92|2|HAYIR|%15|EVET|%28|2|HAYIR|%15|EVET|%31
683|2026-08-17 18:39:24|1|1/4|HAYIR|%45|%22|HAYIR|%22|%50|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%33|T•B|EVET|%64|%55|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE||HAYIR|%70|2|HAYIR|%21|EVET|%33|1|HAYIR|%34|EVET|%27|2|HAYIR|%20|EVET|%38|1|HAYIR|%20|EVET|%28|4|HAYIR|%26|EVET|%43|2|HAYIR|%27|EVET|%36|4|HAYIR|%25|EVET|%30|1|HAYIR|%23|EVET|%37|1|HAYIR|%26|EVET|%28|4|HAYIR|%24|EVET|%27|2|HAYIR|%20|EVET|%51|2|HAYIR|%15|EVET|%28|2|HAYIR|%15|EVET|%31
684|2026-08-17 18:39:27|3|2/4|HAYIR|%45|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%38|C•K|HAYIR|%64|%54|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%53|4|HAYIR|%20|EVET|%38|2|HAYIR|%34|EVET|%35|3|EVET|%19|EVET|%46|4|HAYIR|%19|EVET|%29|4|HAYIR|%26|EVET|%42|4|HAYIR|%27|EVET|%59|2|HAYIR|%25|EVET|%31|2|HAYIR|%22|EVET|%31|2|HAYIR|%26|EVET|%29|4|HAYIR|%23|EVET|%31|4|HAYIR|%19|EVET|%98|2|HAYIR|%15|EVET|%28|4|HAYIR|%15|EVET|%29
685|2026-08-17 18:39:27|3|1/2|HAYIR|%45|%22|EVET|%22|%32|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%41|T•K|EVET|%64|%58|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI|PATTERN_BREAK:0,59|EVET|%44|2|EVET|%20|EVET|%41|1|HAYIR|%34|EVET|%29|2|EVET|%20|EVET|%45|1|HAYIR|%19|EVET|%37|1|HAYIR|%25|EVET|%30|2|EVET|%26|EVET|%49|2|EVET|%24|EVET|%32|1|HAYIR|%22|EVET|%31|2|EVET|%25|EVET|%28|2|EVET|%23|EVET|%33|2|EVET|%19|EVET|%95|2|EVET|%15|EVET|%28|2|EVET|%15|EVET|%33
686|2026-08-17 18:39:28|2|3/4|HAYIR|%45|%22|HAYIR|%22|%51|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%31|C•B|EVET|%64|%53|DONGU_TERS_YON|FRAGMENTARY_2|TEPE>VADI>DONGU_TERS||HAYIR|%47|4|HAYIR|%21|EVET|%31|2|EVET|%33|EVET|%29|2|EVET|%21|EVET|%47|2|EVET|%19|EVET|%30|4|HAYIR|%25|EVET|%42|4|HAYIR|%27|EVET|%35|3|HAYIR|%25|EVET|%29|3|HAYIR|%22|EVET|%38|3|HAYIR|%26|EVET|%27|4|HAYIR|%24|EVET|%27|3|HAYIR|%20|EVET|%53|4|HAYIR|%16|EVET|%25|4|HAYIR|%16|EVET|%27
687|2026-08-17 18:39:29|2|1/4|HAYIR|%45|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%34|T•K|EVET|%64|%54|DONGU_TERS_YON|FRAGMENTARY_2|TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%32|2|EVET|%21|EVET|%34|4|HAYIR|%34|EVET|%28|1|HAYIR|%22|EVET|%55|2|EVET|%20|EVET|%43|4|HAYIR|%25|EVET|%42|4|HAYIR|%27|EVET|%44|3|HAYIR|%25|EVET|%35|3|HAYIR|%22|EVET|%31|3|HAYIR|%26|EVET|%27|1|HAYIR|%24|EVET|%28|2|EVET|%20|EVET|%53|4|HAYIR|%16|EVET|%25|1|HAYIR|%16|EVET|%28
688|2026-08-17 18:39:30|2|2/3|HAYIR|%45|%22|EVET|%22|%33|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%38|T•B|EVET|%64|%56|TEPE_YON|FRAGMENTARY_2|AZALIS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%52|2|HAYIR|%22|EVET|%38|2|HAYIR|%34|EVET|%31|2|HAYIR|%22|EVET|%36|2|HAYIR|%21|EVET|%39|2|HAYIR|%25|EVET|%35|2|HAYIR|%27|EVET|%41|3|EVET|%25|EVET|%45|3|EVET|%22|EVET|%35|3|EVET|%26|EVET|%26|2|HAYIR|%24|EVET|%32|3|EVET|%21|EVET|%56|4|HAYIR|%16|EVET|%25|2|HAYIR|%16|EVET|%29
689|2026-08-17 18:39:32|3|1/2|EVET|%45|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%32|C•K|EVET|%64|%53|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%44|1|EVET|%21|EVET|%32|1|EVET|%33|EVET|%30|1|EVET|%21|EVET|%40|2|HAYIR|%20|EVET|%40|1|EVET|%24|EVET|%42|1|EVET|%26|EVET|%48|2|HAYIR|%25|EVET|%31|2|HAYIR|%22|EVET|%30|2|HAYIR|%26|EVET|%29|1|EVET|%23|EVET|%32|2|HAYIR|%21|EVET|%64|4|HAYIR|%15|EVET|%25|2|HAYIR|%15|EVET|%31
690|2026-08-17 18:39:33|1|3/2|HAYIR|%45|%22|EVET|%22|%43|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%32|C•K|EVET|%64|%53|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TEPE||HAYIR|%60|2|EVET|%22|EVET|%32|2|EVET|%34|EVET|%30|2|EVET|%22|EVET|%34|3|HAYIR|%20|EVET|%31|2|EVET|%25|EVET|%32|2|EVET|%27|EVET|%43|4|HAYIR|%25|EVET|%29|3|HAYIR|%22|EVET|%31|1|HAYIR|%26|EVET|%28|2|EVET|%24|EVET|%29|2|EVET|%21|EVET|%50|1|HAYIR|%15|EVET|%25|2|EVET|%15|EVET|%30
691|2026-08-17 18:39:34|2|4/1|EVET|%45|%22|HAYIR|%22|%35|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%41|T•K|HAYIR|%64|%51|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%38|4|EVET|%23|EVET|%41|1|HAYIR|%34|EVET|%31|4|EVET|%23|EVET|%44|1|HAYIR|%20|EVET|%34|1|HAYIR|%26|EVET|%42|4|EVET|%28|EVET|%40|3|HAYIR|%25|EVET|%29|3|HAYIR|%22|EVET|%37|3|HAYIR|%26|EVET|%27|4|EVET|%25|EVET|%29|4|EVET|%22|EVET|%54|1|HAYIR|%15|EVET|%25|4|EVET|%16|EVET|%34
692|2026-08-17 18:39:36|4|2/3|EVET|%45|%22|HAYIR|%22|%46|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%26|%39|T•B|HAYIR|%64|%54|VADI_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%58|2|EVET|%24|EVET|%39|2|EVET|%34|EVET|%30|2|EVET|%24|EVET|%63|3|HAYIR|%20|EVET|%34|2|EVET|%25|EVET|%32|2|EVET|%28|EVET|%40|2|EVET|%25|EVET|%31|3|HAYIR|%22|EVET|%41|3|HAYIR|%25|EVET|%29|2|EVET|%25|EVET|%36|2|EVET|%23|EVET|%76|2|EVET|%15|EVET|%28|3|HAYIR|%17|EVET|%27
693|2026-08-17 18:39:37|2|4/3|HAYIR|%45|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%34|T•B|HAYIR|%64|%53|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%48|4|HAYIR|%24|EVET|%34|1|HAYIR|%35|EVET|%27|4|HAYIR|%24|EVET|%49|2|EVET|%20|EVET|%33|2|EVET|%26|EVET|%33|4|HAYIR|%29|EVET|%46|4|HAYIR|%25|EVET|%29|1|HAYIR|%21|EVET|%31|3|HAYIR|%25|EVET|%27|4|HAYIR|%26|EVET|%33|1|HAYIR|%23|EVET|%89|2|EVET|%16|EVET|%28|3|HAYIR|%17|EVET|%29
694|2026-08-17 18:39:38|2|1/2|HAYIR|%45|%22|HAYIR|%22|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%40|T•K|EVET|%64|%64|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%50|1|HAYIR|%24|EVET|%40|2|HAYIR|%34|EVET|%33|1|HAYIR|%24|EVET|%46|2|HAYIR|%20|EVET|%39|1|HAYIR|%27|EVET|%42|1|HAYIR|%29|EVET|%68|3|EVET|%25|EVET|%34|2|HAYIR|%21|EVET|%30|3|EVET|%25|EVET|%27|1|HAYIR|%26|EVET|%38|3|EVET|%23|EVET|%64|2|HAYIR|%16|EVET|%28|2|HAYIR|%16|EVET|%28
695|2026-08-17 18:39:40|3|2/1|HAYIR|%45|%22|EVET|%22|%49|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%34|T•K|EVET|%64|%56|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>DONGU||HAYIR|%46|2|HAYIR|%24|EVET|%34|4|HAYIR|%34|EVET|%27|1|EVET|%24|EVET|%39|2|HAYIR|%20|EVET|%36|4|HAYIR|%27|EVET|%41|4|HAYIR|%28|EVET|%39|2|HAYIR|%26|EVET|%31|2|HAYIR|%21|EVET|%30|2|HAYIR|%26|EVET|%29|4|HAYIR|%26|EVET|%28|2|HAYIR|%24|EVET|%62|2|HAYIR|%16|EVET|%28|1|EVET|%16|EVET|%32
696|2026-08-17 18:39:41|1|2|HAYIR|%45|%22|HAYIR|%22|%80|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%43|C•K|EVET|%64|%61|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI||HAYIR|%89|2|HAYIR|%24|EVET|%43|2|HAYIR|%34|EVET|%36|2|HAYIR|%25|EVET|%50|3|HAYIR|%20|EVET|%30|2|HAYIR|%26|EVET|%37|2|HAYIR|%28|EVET|%52|4|HAYIR|%25|EVET|%29|3|HAYIR|%21|EVET|%31|1|EVET|%25|EVET|%27|2|HAYIR|%25|EVET|%37|2|HAYIR|%24|EVET|%56|2|HAYIR|%16|EVET|%28|2|HAYIR|%17|EVET|%32
697|2026-08-17 18:39:42|1|4/2|HAYIR|%45|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%29|T•B|EVET|%64|%52|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%40|3|HAYIR|%23|EVET|%29|1|EVET|%33|EVET|%32|2|HAYIR|%24|EVET|%33|4|HAYIR|%20|EVET|%30|3|HAYIR|%26|EVET|%44|3|HAYIR|%28|EVET|%41|4|HAYIR|%25|EVET|%33|1|EVET|%21|EVET|%36|1|EVET|%26|EVET|%28|3|HAYIR|%25|EVET|%27|3|HAYIR|%23|EVET|%87|2|HAYIR|%16|EVET|%28|3|HAYIR|%17|EVET|%29
698|2026-08-17 18:39:43|1|2/3|HAYIR|%45|%22|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%34|C•B|EVET|%64|%51|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%55|2|HAYIR|%23|EVET|%34|2|HAYIR|%34|EVET|%33|2|HAYIR|%24|EVET|%35|1|HAYIR|%20|EVET|%27|2|HAYIR|%26|EVET|%33|2|HAYIR|%28|EVET|%50|2|HAYIR|%25|EVET|%34|1|HAYIR|%21|EVET|%31|1|HAYIR|%27|EVET|%29|2|HAYIR|%25|EVET|%32|2|HAYIR|%23|EVET|%85|2|HAYIR|%16|EVET|%28|3|EVET|%17|EVET|%29
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 700 ve sonrası)

```
700 699|2026-08-17 18:39:44|3|4/1|HAYIR|%45|%22|HAYIR|%22|%38|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%32|T•K|EVET|%64|%57|VADI_YON|FRAGMENTARY_2|DONGU
↳ _TERS>VADI>VADI||HAYIR|%43|4|HAYIR|%23|EVET|%32|1|HAYIR|%34|EVET|%28|1|HAYIR|%24|EVET|%42|2|HAYIR|%19|EVET|%34|4|HAYIR|%26|EVET|%40|4|HAYIR|%
↳ 27|EVET|%44|2|HAYIR|%25|EVET|%31|2|HAYIR|%21|EVET|%29|2|HAYIR|%27|EVET|%29|4|HAYIR|%25|EVET|%29|3|EVET|%23|EVET|%69|1|HAYIR|%16|EVET|%25|4|HA
↳ YIR|%18|EVET|%28
701 700|2026-08-17 18:39:45|3|2|HAYIR|%45|%22|HAYIR|%22|%68|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%50|T•K|EVET|%64|%59|TEPE_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>VADI>TEPE||HAYIR|%89|2|HAYIR|%23|EVET|%50|2|HAYIR|%33|EVET|%31|2|HAYIR|%24|EVET|%52|2|HAYIR|%19|EVET|%35|2|HAYIR|%25|EVET|%45|2|HAYIR|%27
↳ |EVET|%57|2|HAYIR|%25|EVET|%35|2|HAYIR|%21|EVET|%35|2|HAYIR|%26|EVET|%28|2|HAYIR|%25|EVET|%42|2|HAYIR|%24|EVET|%95|1|EVET|%16|EVET|%25|2|HAYI
↳ R|%17|EVET|%35
702 701|2026-08-17 18:39:46|1|1/4|HAYIR|%45|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%28|T•B|HAYIR|%64|%55|TEPE_YON|FRAGMENTARY_2|VADI
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%39|1|HAYIR|%23|EVET|%28|1|HAYIR|%33|EVET|%28|4|HAYIR|%23|EVET|%41|2|EVET|%19|EVET|%27|1|HAYIR|%25|EVET|%3
↳ 1|4|HAYIR|%27|EVET|%35|4|HAYIR|%24|EVET|%28|1|HAYIR|%21|EVET|%39|1|HAYIR|%26|EVET|%28|1|HAYIR|%24|EVET|%29|3|HAYIR|%23|EVET|%49|1|HAYIR|%16|E
↳ VET|%25|2|EVET|%17|EVET|%31
703 702|2026-08-17 18:39:46|2|4/3|HAYIR|%45|%22|HAYIR|%22|%36|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%47|C•B|EVET|%64|%55|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%52|4|HAYIR|%22|EVET|%47|2|EVET|%33|EVET|%30|4|HAYIR|%23|EVET|%40|2|EVET|%20|EVET|%35|4|HAYIR|%25|EVET|%33|
↳ 4|HAYIR|%27|EVET|%51|4|HAYIR|%24|EVET|%29|3|HAYIR|%21|EVET|%41|3|HAYIR|%26|EVET|%27|4|HAYIR|%24|EVET|%32|4|HAYIR|%23|EVET|%65|1|HAYIR|%16|EVE
↳ T|%25|4|HAYIR|%18|EVET|%36
704 703|2026-08-17 18:39:48|2|3/1|HAYIR|%45|%22|EVET|%22|%34|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%39|T•B|EVET|%64|%56|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%48|3|HAYIR|%22|EVET|%39|1|EVET|%33|EVET|%31|3|HAYIR|%23|EVET|%47|2|HAYIR|%20|EVET|%41|3|HAYIR|%25|EVE
↳ T|%38|3|HAYIR|%26|EVET|%51|3|HAYIR|%24|EVET|%37|3|HAYIR|%20|EVET|%36|3|HAYIR|%26|EVET|%27|3|HAYIR|%24|EVET|%37|3|HAYIR|%23|EVET|%87|1|EVET|%1
↳ 6|EVET|%25|3|HAYIR|%18|EVET|%30
705 704|2026-08-17 18:39:49|1|3/2|EVET|%45|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|T•B|EVET|%65|%54|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%22|EVET|%32|2|HAYIR|%34|EVET|%34|3|EVET|%23|EVET|%34|4|HAYIR|%20|EVET|%37|2|HAYIR|%25|EVET
↳ |%33|1|HAYIR|%26|EVET|%35|2|HAYIR|%24|EVET|%28|3|EVET|%20|EVET|%32|1|HAYIR|%25|EVET|%28|3|EVET|%24|EVET|%28|1|HAYIR|%23|EVET|%58|1|HAYIR|%17|
↳ EVET|%25|1|HAYIR|%18|EVET|%35
706 705|2026-08-17 18:39:51|3|2/4|HAYIR|%45|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%33|C•K|HAYIR|%64|%57|TEPE_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%22|EVET|%33|1|HAYIR|%34|EVET|%31|2|HAYIR|%23|EVET|%42|2|HAYIR|%20|EVET|%29|2|HAYIR|%24|EV
↳ ET|%40|2|HAYIR|%26|EVET|%54|2|HAYIR|%23|EVET|%31|2|HAYIR|%21|EVET|%30|2|HAYIR|%25|EVET|%28|2|HAYIR|%24|EVET|%35|2|HAYIR|%23|EVET|%62|2|HAYIR|
↳ %17|EVET|%28|3|EVET|%17|EVET|%28
707 706|2026-08-17 18:39:53|3|2/1|HAYIR|%45|%22|HAYIR|%22|%62|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%49|C•K|HAYIR|%64|%60|VADI_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>VADI||HAYIR|%88|2|HAYIR|%22|EVET|%49|2|HAYIR|%33|EVET|%32|2|HAYIR|%23|EVET|%46|1|HAYIR|%20|EVET|%38|3|EVET|%24|EVET|%46|2|HAYIR|%26|EVE
↳ T|%54|2|HAYIR|%23|EVET|%33|2|HAYIR|%21|EVET|%35|2|HAYIR|%25|EVET|%28|2|HAYIR|%24|EVET|%37|2|HAYIR|%22|EVET|%93|2|HAYIR|%16|EVET|%28|2|HAYIR|%
↳ 18|EVET|%34
708 707|2026-08-17 18:39:54|3|1/2|HAYIR|%45|%22|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%41|T•B|HAYIR|%64|%50|VADI_YON|FRAGMENTARY_2|DONGU_
↳ TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%34|2|EVET|%21|EVET|%41|1|HAYIR|%33|EVET|%27|4|HAYIR|%23|EVET|%29|2|EVET|%20|EVET|%43|4|HAYIR|%25|EVET
↳ |%39|4|HAYIR|%26|EVET|%35|2|EVET|%23|EVET|%39|1|HAYIR|%21|EVET|%34|2|EVET|%25|EVET|%28|2|EVET|%24|EVET|%30|2|EVET|%22|EVET|%92|2|EVET|%16|EVE
↳ T|%28|2|EVET|%18|EVET|%33
709 708|2026-08-17 18:39:57|2|3/4|HAYIR|%45|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%32|C•B|EVET|%64|%58|TEPE_YON|FRAGMENTARY_2|VADI>
↳ TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%43|4|HAYIR|%22|EVET|%32|2|EVET|%33|EVET|%32|4|HAYIR|%23|EVET|%42|1|HAYIR|%20|EVET|%38|4|HAYIR|%25|EVET|%39
↳ |4|HAYIR|%25|EVET|%50|3|HAYIR|%24|EVET|%28|3|HAYIR|%20|EVET|%43|3|HAYIR|%25|EVET|%27|4|HAYIR|%25|EVET|%31|3|HAYIR|%23|EVET|%53|2|EVET|%17|EVE
↳ T|%28|4|HAYIR|%19|EVET|%26
710 709|2026-08-17 18:39:59|2|1/3|EVET|%45|%22|HAYIR|%22|%43|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%42|T•K|EVET|%64|%50|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI||HAYIR|%45|2|HAYIR|%22|EVET|%42|1|EVET|%33|EVET|%26|1|EVET|%23|EVET|%34|1|EVET|%20|EVET|%34|2|HAYIR|%24|EVET|%34|2|HAYIR|%25|EVET|%4
↳ 4|3|HAYIR|%23|EVET|%34|3|HAYIR|%20|EVET|%30|3|HAYIR|%25|EVET|%27|2|HAYIR|%24|EVET|%29|2|HAYIR|%23|EVET|%58|2|HAYIR|%18|EVET|%28|3|HAYIR|%19|E
↳ VET|%29
711 710|2026-08-17 18:40:03|1|3/2|HAYIR|%45|%22|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%34|T•B|EVET|%64|%57|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|TEPE>VADI>BLOK_TERS|REGIME_SHIFT:0,75|EVET|%33|3|HAYIR|%22|EVET|%34|2|HAYIR|%34|EVET|%41|2|HAYIR|%23|EVET|%33|4|HAYIR|%21|EVET|%32|2|HAYIR
↳ |%24|EVET|%38|2|HAYIR|%25|EVET|%34|3|HAYIR|%23|EVET|%28|3|HAYIR|%20|EVET|%34|1|EVET|%25|EVET|%28|2|HAYIR|%24|EVET|%30|1|EVET|%22|EVET|%52|2|H
↳ AYIR|%18|EVET|%28|1|EVET|%18|EVET|%34
712 711|2026-08-17 18:40:06|1|1/3|HAYIR|%45|%22|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%34|T•B|EVET|%64|%54|TEPE_YON|FRAGMENTARY_2|VADI>T
↳ EPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%30|4|HAYIR|%21|EVET|%34|1|HAYIR|%34|EVET|%28|4|HAYIR|%23|EVET|%43|4|HAYIR|%21|EVET|%29|4|
↳ HAYIR|%24|EVET|%38|4|HAYIR|%25|EVET|%49|4|HAYIR|%23|EVET|%32|1|HAYIR|%20|EVET|%40|1|HAYIR|%26|EVET|%28|4|HAYIR|%24|EVET|%30|4|HAYIR|%23|EVET|
↳ %70|2|HAYIR|%17|EVET|%28|3|EVET|%19|EVET|%31
713 712|2026-08-17 18:40:08|3|3/4|EVET|%45|%22|HAYIR|%22|%52|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%36|T•B|EVET|%65|%54|VADI_YON|FRAGMENTARY_2|TEPE>TE
↳ PE>VADI||HAYIR|%64|3|EVET|%21|EVET|%36|2|HAYIR|%33|EVET|%32|4|HAYIR|%23|EVET|%39|1|HAYIR|%20|EVET|%29|3|EVET|%24|EVET|%46|3|EVET|%25|EVET|%34
↳ |2|HAYIR|%23|EVET|%31|3|EVET|%20|EVET|%36|2|HAYIR|%25|EVET|%28|3|EVET|%24|EVET|%28|3|EVET|%23|EVET|%76|1|HAYIR|%17|EVET|%25|3|EVET|%20|EVET|%
↳ 31
714 713|2026-08-17 18:40:10|3|2/1|HAYIR|%45|%22|HAYIR|%22|%53|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%44|C•K|EVET|%65|%58|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI||HAYIR|%77|2|HAYIR|%22|EVET|%44|1|HAYIR|%33|EVET|%27|2|HAYIR|%23|EVET|%40|2|HAYIR|%20|EVET|%36|2|HAYIR|%24|EVET|%45|2|HAYIR|%25|EVE
↳ T|%58|2|HAYIR|%23|EVET|%33|1|HAYIR|%20|EVET|%33|2|HAYIR|%25|EVET|%28|2|HAYIR|%24|EVET|%37|2|HAYIR|%24|EVET|%92|1|HAYIR|%17|EVET|%25|2|HAYIR|%
↳ 20|EVET|%35
715 714|2026-08-17 18:40:35|4|2/3|HAYIR|%45|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%31|C•K|HAYIR|%64|%60|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%70|4|HAYIR|%22|EVET|%31|2|HAYIR|%33|EVET|%34|2|HAYIR|%23|EVET|%44|2|HAYIR|%20|EVET|%31|2|HAYIR|%24|EV
↳ ET|%30|4|HAYIR|%25|EVET|%41|2|HAYIR|%23|EVET|%33|2|HAYIR|%20|EVET|%41|3|EVET|%25|EVET|%28|2|HAYIR|%24|EVET|%34|4|HAYIR|%23|EVET|%63|1|HAYIR|%
↳ 17|EVET|%25|2|HAYIR|%20|EVET|%32
716 715|2026-08-17 18:40:37|3|2/3|EVET|%45|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%32|C•B|EVET|%65|%55|TEPE_YON|FRAGMENTARY_2|BLOK_DU
↳ Z>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%42|2|EVET|%22|EVET|%32|1|HAYIR|%33|EVET|%31|4|HAYIR|%22|EVET|%34|2|EVET|%20|EVET|%32|3|HAYIR|%24|EVET|%2
↳ 9|2|EVET|%25|EVET|%29|2|EVET|%22|EVET|%30|3|HAYIR|%20|EVET|%30|2|EVET|%25|EVET|%28|2|EVET|%24|EVET|%26|4|HAYIR|%23|EVET|%67|3|HAYIR|%17|EVET|
↳ %25|2|EVET|%20|EVET|%29
717 716|2026-08-17 18:40:38|2|2/4|EVET|%45|%22|HAYIR|%22|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%30|C•B|EVET|%65|%50|TEPE_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%60|1|HAYIR|%22|EVET|%30|2|EVET|%32|EVET|%33|1|HAYIR|%22|EVET|%38|1|HAYIR|%21|EVET|%31|1|HAYIR|%24|EVET|
↳ %35|1|HAYIR|%25|EVET|%40|4|HAYIR|%23|EVET|%28|3|HAYIR|%20|EVET|%41|3|HAYIR|%26|EVET|%26|1|HAYIR|%25|EVET|%29|1|HAYIR|%23|EVET|%41|3|HAYIR|%17
↳ |EVET|%25|2|EVET|%21|EVET|%26
718 717|2026-08-17 18:40:39|2|1/3|HAYIR|%45|%22|EVET|%23|%56|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%37|T•K|EVET|%65|%56|TEPE_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_2>VADI>TEPE||HAYIR|%86|2|HAYIR|%22|EVET|%37|1|HAYIR|%33|EVET|%31|4|HAYIR|%22|EVET|%35|1|HAYIR|%20|EVET|%34|2|HAYIR|%24|EVET|%31|2|HAY
↳ IR|%25|EVET|%38|1|HAYIR|%23|EVET|%31|3|EVET|%20|EVET|%33|3|EVET|%26|EVET|%26|1|HAYIR|%24|EVET|%30|2|HAYIR|%23|EVET|%48|3|EVET|%17|EVET|%25|1|
↳ HAYIR|%21|EVET|%29
719 718|2026-08-17 18:40:40|3|2/1|HAYIR|%45|%22|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%38|T•K|EVET|%65|%56|TEPE_YON|FRAGMENTARY_2|VADI>
↳ BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%56|1|HAYIR|%22|EVET|%38|2|HAYIR|%33|EVET|%31|1|HAYIR|%22|EVET|%40|2|HAYIR|%20|EVET|%36|4|HAYIR|%23|EV
↳ ET|%38|4|HAYIR|%25|EVET|%37|2|HAYIR|%23|EVET|%32|2|HAYIR|%20|EVET|%38|2|HAYIR|%26|EVET|%28|2|HAYIR|%24|EVET|%29|2|HAYIR|%23|EVET|%58|2|HAYIR|
↳ %17|EVET|%28|1|HAYIR|%21|EVET|%33
720 719|2026-08-17 18:40:41|3|1/2|HAYIR|%45|%22|EVET|%23|%36|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%41|T•K|EVET|%65|%52|DONGU_TERS_YON|FRAGMENTARY_2|V
↳ ADI>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%61|2|EVET|%22|EVET|%41|1|HAYIR|%32|EVET|%27|3|HAYIR|%22|EVET|%37|2|EVET|%20|EVET|%39|2|EVET|%23|
↳ EVET|%33|1|HAYIR|%25|EVET|%39|2|EVET|%22|EVET|%32|2|EVET|%20|EVET|%32|2|EVET|%26|EVET|%28|2|EVET|%24|EVET|%32|1|HAYIR|%22|EVET|%71|2|EVET|%17
↳ |EVET|%28|2|EVET|%21|EVET|%34
721 720|2026-08-17 18:40:42|2|2/4|HAYIR|%45|%22|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%29|T•B|EVET|%65|%52|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DALGA_TEK_SIM_1>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%64|4|HAYIR|%22|EVET|%29|2|HAYIR|%32|EVET|%41|4|HAYIR|%21|EVET|%43|1|EVET|%21|EVET|%
↳ 37|4|HAYIR|%24|EVET|%37|4|HAYIR|%25|EVET|%57|3|HAYIR|%23|EVET|%28|3|HAYIR|%21|EVET|%38|3|HAYIR|%27|EVET|%27|4|HAYIR|%25|EVET|%28|3|HAYIR|%22|
↳ EVET|%52|2|HAYIR|%18|EVET|%28|2|HAYIR|%21|EVET|%28
722 721|2026-08-17 18:40:45|1|1/3|EVET|%45|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%33|T•K|EVET|%65|%51|DONGU_TERS_YON|FRAGMENTARY_2|V
↳ ADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%70|1|EVET|%22|EVET|%33|1|EVET|%32|EVET|%28|4|HAYIR|%21|EVET|%39|4|HAYIR|%21|EVET|%32|1|EVET|%24|
↳ EVET|%30|1|EVET|%24|EVET|%43|3|HAYIR|%23|EVET|%28|1|EVET|%21|EVET|%31|1|EVET|%27|EVET|%28|1|EVET|%24|EVET|%29|2|HAYIR|%22|EVET|%82|2|HAYIR|%1
↳ 8|EVET|%28|1|EVET|%21|EVET|%36
723 722|2026-08-17 18:40:46|1|3/1|HAYIR|%45|%22|HAYIR|%23|%54|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%33|T•B|HAYIR|%65|%57|VADI_YON|FRAGMENTARY_2|VADI
↳ >VADI>VADI||HAYIR|%69|3|HAYIR|%23|EVET|%33|2|EVET|%32|EVET|%32|3|HAYIR|%21|EVET|%32|3|HAYIR|%21|EVET|%29|3|HAYIR|%24|EVET|%47|3|HAYIR|%25|EVE
↳ T|%41|4|HAYIR|%23|EVET|%30|3|HAYIR|%21|EVET|%32|1|HAYIR|%27|EVET|%29|3|HAYIR|%25|EVET|%32|4|HAYIR|%22|EVET|%61|2|EVET|%17|EVET|%28|3|HAYIR|%2
↳ 2|EVET|%32
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 724 ve sonrası)

```
724 723|2026-08-17 18:40:47|2|4/3|EVET|%45|%22|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%44|T•B|EVET|%65|%59|TEPE_YON|FRAGMENTARY_2|BLOK_DU
↳ Z>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%42|4|EVET|%22|EVET|%44|1|HAYIR|%33|EVET|%29|2|HAYIR|%21|EVET|%40|3|HAYIR|%21|EVET|%35|3|HAYIR|%24|EVET|%
↳ 34|4|EVET|%25|EVET|%37|3|HAYIR|%22|EVET|%28|3|HAYIR|%21|EVET|%44|3|HAYIR|%27|EVET|%27|3|HAYIR|%25|EVET|%30|3|HAYIR|%22|EVET|%91|2|HAYIR|%18|E
↳ VET|%28|4|EVET|%22|EVET|%34
725 724|2026-08-17 18:40:50|4|2/3|HAYIR|%45|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%35|T•B|EVET|%65|%53|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%60|2|HAYIR|%23|EVET|%35|2|HAYIR|%33|EVET|%43|2|HAYIR|%21|EVET|%51|3|EVET|%21|EVET|%30|4|HAYIR|%24|EVET
↳ |%38|4|HAYIR|%25|EVET|%38|2|HAYIR|%22|EVET|%32|3|EVET|%21|EVET|%38|3|EVET|%27|EVET|%29|2|HAYIR|%25|EVET|%32|2|HAYIR|%22|EVET|%82|2|HAYIR|%18|
↳ EVET|%28|2|HAYIR|%22|EVET|%28
726 725|2026-08-17 18:40:51|3|2/3|HAYIR|%45|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%48|C•K|EVET|%65|%50|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%66|2|HAYIR|%23|EVET|%48|1|EVET|%32|EVET|%31|2|HAYIR|%21|EVET|%62|3|HAYIR|%21|EVET|%36|2|HAYIR|%24|EVE
↳ T|%46|2|HAYIR|%25|EVET|%62|2|HAYIR|%22|EVET|%32|2|HAYIR|%21|EVET|%34|2|HAYIR|%27|EVET|%29|2|HAYIR|%24|EVET|%38|2|HAYIR|%21|EVET|%75|3|HAYIR|%
↳ 18|EVET|%25|2|HAYIR|%22|EVET|%32
727 726|2026-08-17 18:40:54|1|2/1|HAYIR|%45|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%39|C•B|HAYIR|%65|%51|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%57|2|HAYIR|%23|EVET|%39|2|HAYIR|%33|EVET|%41|2|HAYIR|%21|EVET|%51|3|HAYIR|%21|EVET|%41|2|HAYIR|%23|EV
↳ ET|%45|2|HAYIR|%25|EVET|%51|3|HAYIR|%22|EVET|%28|1|EVET|%21|EVET|%31|1|EVET|%27|EVET|%29|2|HAYIR|%24|EVET|%35|4|HAYIR|%21|EVET|%73|3|HAYIR|%1
↳ 8|EVET|%25|2|HAYIR|%22|EVET|%32
728 727|2026-08-17 18:40:55|1|1/3|EVET|%45|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%26|T•B|EVET|%65|%54|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%63|3|HAYIR|%23|EVET|%26|1|EVET|%33|EVET|%32|2|HAYIR|%20|EVET|%33|3|HAYIR|%21|EVET|%32|3|HAYIR|%2
↳ 3|EVET|%34|1|EVET|%25|EVET|%38|4|HAYIR|%22|EVET|%28|1|EVET|%22|EVET|%38|1|EVET|%28|EVET|%29|1|EVET|%24|EVET|%29|3|HAYIR|%21|EVET|%81|1|EVET|%
↳ 17|EVET|%25|3|HAYIR|%22|EVET|%31
729 728|2026-08-17 18:40:57|1|3/1|HAYIR|%45|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%34|C•K|EVET|%65|%52|TEPE_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%48|2|HAYIR|%22|EVET|%34|2|HAYIR|%33|EVET|%40|2|HAYIR|%20|EVET|%30|3|HAYIR|%21|EVET|%36|2|HAYIR|%23|E
↳ VET|%45|2|HAYIR|%25|EVET|%49|3|HAYIR|%22|EVET|%36|3|HAYIR|%22|EVET|%35|1|HAYIR|%28|EVET|%30|2|HAYIR|%25|EVET|%33|2|HAYIR|%21|EVET|%75|1|HAYIR
↳ |%18|EVET|%25|3|HAYIR|%22|EVET|%30
730 729|2026-08-17 18:41:01|4|3/2|HAYIR|%45|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%36|C•K|EVET|%65|%54|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%53|3|HAYIR|%22|EVET|%36|1|EVET|%33|EVET|%31|2|HAYIR|%20|EVET|%49|4|HAYIR|%21|EVET|%35|3|HAYIR|%2
↳ 3|EVET|%46|3|HAYIR|%25|EVET|%46|3|HAYIR|%21|EVET|%32|3|HAYIR|%22|EVET|%51|3|HAYIR|%28|EVET|%30|3|HAYIR|%24|EVET|%34|3|HAYIR|%21|EVET|%63|1|EV
↳ ET|%18|EVET|%25|3|HAYIR|%21|EVET|%31
731 730|2026-08-17 18:41:02|1|3/1|EVET|%45|%22|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|C•K|HAYIR|%65|%57|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%50|1|HAYIR|%22|EVET|%32|2|HAYIR|%33|EVET|%39|3|EVET|%20|EVET|%55|3|EVET|%21|EVET|%30|3|EVET|%23|EVET|%
↳ 46|3|EVET|%25|EVET|%50|3|EVET|%21|EVET|%28|1|HAYIR|%22|EVET|%34|1|HAYIR|%28|EVET|%30|3|EVET|%24|EVET|%36|1|HAYIR|%21|EVET|%95|1|HAYIR|%19|EVE
↳ T|%26|1|HAYIR|%21|EVET|%31
732 731|2026-08-17 18:41:02|3|1/4|HAYIR|%45|%22|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%43|T•B|EVET|%65|%53|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI||HAYIR|%48|3|EVET|%22|EVET|%43|1|HAYIR|%33|EVET|%28|1|HAYIR|%20|EVET|%43|2|HAYIR|%21|EVET|%29|3|EVET|%23|EVET|%46|3|EVET|%25|EVET|%5
↳ 1|2|HAYIR|%22|EVET|%31|3|EVET|%22|EVET|%28|2|HAYIR|%27|EVET|%28|3|EVET|%25|EVET|%32|4|HAYIR|%20|EVET|%63|2|HAYIR|%18|EVET|%28|3|EVET|%21|EVET
↳ |%33
733 732|2026-08-17 18:41:04|3|2/1|HAYIR|%45|%22|EVET|%23|%52|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%41|T•K|EVET|%65|%55|VADI_YON|FRAGMENTARY_2|TEPE>VA
↳ DI>VADI||HAYIR|%75|1|EVET|%22|EVET|%41|2|HAYIR|%33|EVET|%37|1|EVET|%20|EVET|%38|2|HAYIR|%21|EVET|%34|1|EVET|%24|EVET|%45|1|EVET|%26|EVET|%67|
↳ 2|HAYIR|%22|EVET|%34|2|HAYIR|%22|EVET|%33|2|HAYIR|%27|EVET|%28|1|EVET|%25|EVET|%36|2|HAYIR|%20|EVET|%92|2|HAYIR|%18|EVET|%28|2|HAYIR|%22|EVET
↳ |%35
734 733|2026-08-17 18:41:05|1|1/4|HAYIR|%45|%22|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%33|C•K|EVET|%65|%52|TEPE_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%41|4|EVET|%23|EVET|%33|1|HAYIR|%33|EVET|%34|4|EVET|%21|EVET|%47|3|HAYIR|%21|EVET|%32|4|EVET|%24|EVET|%3
↳ 7|4|EVET|%26|EVET|%61|3|HAYIR|%22|EVET|%29|1|HAYIR|%22|EVET|%40|1|HAYIR|%27|EVET|%29|4|EVET|%26|EVET|%32|3|HAYIR|%20|EVET|%43|2|HAYIR|%18|EVE
↳ T|%27|2|HAYIR|%22|EVET|%31
735 734|2026-08-17 18:41:06|4|3/2|HAYIR|%45|%22|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%52|C•B|EVET|%65|%53|TEPE_YON|FRAGMENTARY_2|DALGA
↳ _TEK_SIM_1>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%63|3|HAYIR|%23|EVET|%52|2|HAYIR|%32|EVET|%39|3|HAYIR|%21|EVET|%88|4|EVET|%21|EVET|%33|3|HAYIR|%
↳ 25|EVET|%46|3|HAYIR|%27|EVET|%85|3|HAYIR|%21|EVET|%32|3|HAYIR|%22|EVET|%49|3|HAYIR|%27|EVET|%29|3|HAYIR|%26|EVET|%50|3|HAYIR|%20|EVET|%89|2|H
↳ AYIR|%18|EVET|%28|3|HAYIR|%21|EVET|%30
736 735|2026-08-17 18:41:08|4|3/1|HAYIR|%45|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%28|T•K|EVET|%65|%55|TEPE_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%58|3|HAYIR|%23|EVET|%28|1|EVET|%32|EVET|%31|3|HAYIR|%21|EVET|%33|4|HAYIR|%21|EVET|%35|3|HAYIR|%25|EVET|
↳ %34|3|HAYIR|%27|EVET|%36|3|HAYIR|%21|EVET|%28|3|HAYIR|%22|EVET|%35|3|HAYIR|%27|EVET|%29|3|HAYIR|%26|EVET|%30|3|HAYIR|%20|EVET|%53|2|HAYIR|%18
↳ |EVET|%28|3|HAYIR|%21|EVET|%30
737 736|2026-08-17 18:41:09|1|3/2|EVET|%45|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%37|T•B|EVET|%65|%55|VADI_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_1>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%33|4|HAYIR|%23|EVET|%37|2|HAYIR|%33|EVET|%32|4|HAYIR|%21|EVET|%41|3|EVET|%21|EVET|%33|3|EVET|%25
↳ |EVET|%46|3|EVET|%27|EVET|%46|3|EVET|%21|EVET|%29|1|HAYIR|%22|EVET|%35|1|HAYIR|%27|EVET|%29|3|EVET|%26|EVET|%34|4|HAYIR|%20|EVET|%92|2|HAYIR|
↳ %18|EVET|%27|1|HAYIR|%21|EVET|%30
738 737|2026-08-17 18:41:10|3|2/4|HAYIR|%45|%22|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%39|T•B|EVET|%65|%55|DONGU_YON|FRAGMENTARY_2|BLOK
↳ _TERS>TEPE>DONGU||HAYIR|%58|3|HAYIR|%23|EVET|%39|1|EVET|%32|EVET|%35|1|EVET|%21|EVET|%43|2|HAYIR|%22|EVET|%29|1|EVET|%25|EVET|%29|4|HAYIR|%27
↳ |EVET|%30|2|HAYIR|%22|EVET|%30|1|EVET|%22|EVET|%26|2|HAYIR|%26|EVET|%28|1|EVET|%26|EVET|%28|4|HAYIR|%20|EVET|%54|2|HAYIR|%18|EVET|%27|3|HAYIR
↳ |%21|EVET|%34
739 738|2026-08-17 18:41:11|1|2/3|EVET|%46|%22|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%40|T•B|HAYIR|%65|%59|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%65|2|EVET|%23|EVET|%40|2|EVET|%33|EVET|%32|2|EVET|%22|EVET|%37|3|HAYIR|%22|EVET|%50|2|EVET|%26|EVET|%4
↳ 3|2|EVET|%27|EVET|%58|3|HAYIR|%22|EVET|%30|1|HAYIR|%22|EVET|%34|1|HAYIR|%26|EVET|%29|2|EVET|%27|EVET|%35|3|HAYIR|%20|EVET|%87|1|HAYIR|%18|EVE
↳ T|%26|2|EVET|%21|EVET|%30
740 739|2026-08-17 18:41:13|2|2/3|EVET|%46|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%36|T•K|EVET|%65|%54|VADI_YON|FRAGMENTARY_2|DALGA_T
↳ EK_SIM_1>VADI>VADI|PATTERN_BREAK:0,59|EVET|%48|2|EVET|%23|EVET|%36|1|HAYIR|%33|EVET|%34|2|EVET|%22|EVET|%33|3|HAYIR|%21|EVET|%35|2|EVET|%26|E
↳ VET|%43|2|EVET|%27|EVET|%71|4|HAYIR|%21|EVET|%28|3|HAYIR|%22|EVET|%35|3|HAYIR|%26|EVET|%26|2|EVET|%27|EVET|%34|4|HAYIR|%19|EVET|%56|1|HAYIR|%
↳ 17|EVET|%26|4|HAYIR|%21|EVET|%36
741 740|2026-08-17 18:41:14|2|3/4|HAYIR|%46|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%49|T•B|EVET|%65|%56|TEPE_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%63|3|HAYIR|%24|EVET|%49|2|HAYIR|%33|EVET|%38|3|HAYIR|%23|EVET|%51|3|HAYIR|%21|EVET|%38|3|HAYIR|%26|EVET
↳ |%46|3|HAYIR|%28|EVET|%74|3|HAYIR|%21|EVET|%34|3|HAYIR|%22|EVET|%37|3|HAYIR|%26|EVET|%26|3|HAYIR|%28|EVET|%45|3|HAYIR|%19|EVET|%81|1|HAYIR|%1
↳ 7|EVET|%26|3|HAYIR|%21|EVET|%30
742 741|2026-08-17 18:41:14|4|3/1|HAYIR|%46|%22|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%31|T•K|HAYIR|%65|%55|VADI_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>VADI|PATTERN_BREAK:0,59|EVET|%54|2|HAYIR|%24|EVET|%31|1|HAYIR|%33|EVET|%29|4|EVET|%22|EVET|%44|3|HAYIR|%21|EVET|%41|3|HAYIR|%26|EVET|%3
↳ 0|3|HAYIR|%28|EVET|%29|3|HAYIR|%21|EVET|%31|3|HAYIR|%22|EVET|%32|3|HAYIR|%26|EVET|%29|3|HAYIR|%28|EVET|%27|1|HAYIR|%19|EVET|%63|1|HAYIR|%17|E
↳ VET|%25|3|HAYIR|%21|EVET|%29
743 742|2026-08-17 18:41:16|4|3/1|HAYIR|%46|%22|EVET|%23|%31|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%38|T•K|EVET|%65|%68|VADI_YON|FRAGMENTARY_2|TEPE>TE
↳ PE>VADI|PATTERN_BREAK:0,59|EVET|%37|1|EVET|%24|EVET|%38|2|HAYIR|%33|EVET|%30|2|HAYIR|%23|EVET|%31|1|EVET|%21|EVET|%32|1|EVET|%26|EVET|%34|1|E
↳ VET|%27|EVET|%45|1|EVET|%21|EVET|%31|2|HAYIR|%22|EVET|%31|3|HAYIR|%25|EVET|%28|1|EVET|%27|EVET|%31|1|EVET|%19|EVET|%93|1|EVET|%17|EVET|%25|3|
↳ HAYIR|%21|EVET|%28
744 743|2026-08-17 18:41:17|1|4/1|EVET|%46|%22|HAYIR|%23|%57|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%26|%44|T•B|EVET|%65|%57|TEPE_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>TEPE>TEPE||HAYIR|%69|4|EVET|%24|EVET|%44|1|HAYIR|%32|EVET|%34|4|EVET|%23|EVET|%55|3|HAYIR|%21|EVET|%29|4|EVET|%27|EVET|%29|4|EVET|%28|EVET
↳ |%44|3|HAYIR|%21|EVET|%29|1|HAYIR|%21|EVET|%43|1|HAYIR|%25|EVET|%29|4|EVET|%28|EVET|%34|4|EVET|%20|EVET|%89|1|HAYIR|%18|EVET|%26|3|HAYIR|%21|
↳ EVET|%28
745 744|2026-08-17 18:41:18|4|4/1|EVET|%46|%23|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%39|C•K|EVET|%65|%54|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%59|4|EVET|%25|EVET|%39|2|HAYIR|%32|EVET|%39|4|EVET|%23|EVET|%53|3|HAYIR|%21|EVET|%32|4|EVET|%27|EVET|%3
↳ 2|4|EVET|%28|EVET|%55|3|HAYIR|%21|EVET|%31|3|HAYIR|%21|EVET|%37|3|HAYIR|%25|EVET|%28|4|EVET|%28|EVET|%33|4|EVET|%20|EVET|%64|2|HAYIR|%17|EVET
↳ |%28|3|HAYIR|%21|EVET|%28
746 745|2026-08-17 18:41:19|4|3/2|EVET|%46|%23|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%0|T•K|EVET|%65|%0|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>D
↳ ONGU>TEPE||HAYIR|%0|3|EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|1|HAYIR|%0|E
↳ VET|%0|1|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0
747 746|2026-08-17 18:41:28|3|1/2|HAYIR|%46|%23|EVET|%23|%47|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%26|%36|T•B|HAYIR|%65|%56|TEPE_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>TEPE|PATTERN_BREAK:0,59|EVET|%67|2|EVET|%0|EVET|%36|2|EVET|%0|EVET|%29|1|HAYIR|%0|EVET|%37|4|HAYIR|%0|EVET|%36|1|HAYIR|%0|EVET|%45|1|HAYI
↳ R|%0|EVET|%53|2|EVET|%0|EVET|%30|1|HAYIR|%0|EVET|%32|2|EVET|%0|EVET|%28|1|HAYIR|%0|EVET|%35|1|HAYIR|%0|EVET|%68|2|EVET|%0|EVET|%28|2|EVET|%0|
↳ EVET|%30
748 747|2026-08-17 18:41:28|2|4/2|HAYIR|%46|%23|EVET|%23|%40|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%29|C•B|EVET|%65|%62|TEPE_YON|FRAGMENTARY_2|DONGU_
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 748 ve sonrası)

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↳ TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%61|4|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%28|2|EVET|%0|EVET|%38|2|EVET|%0|EVET|%30|4|HAYIR|%0|EVET|%40|
↳ 4|HAYIR|%0|EVET|%56|4|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%26|4|HAYIR|%0|EVET|%32|2|EVET|%0|EVET|%37|2|EVET|%0|EVET|%28|2|E
↳ VET|%0|EVET|%27
749 748|2026-08-17 18:41:29|2|2/3|HAYIR|%46|%23|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%32|T•K|EVET|%65|%55|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|VADI>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%44|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%28|1|EVET|%0|EV
↳ ET|%29|1|EVET|%0|EVET|%28|2|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%31|1|EVET|%0|EVET|%28|2|HAYIR|%0|EVET|%25|2|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|
↳ %48|2|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%29
750 749|2026-08-17 18:41:30|1|1/2|HAYIR|%46|%23|EVET|%23|%43|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%43|T•B|HAYIR|%65|%54|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|DALGA_TEK_SIM_2>VADI>BLOK_TERS|PATTERN_BREAK:0,59|EVET|%73|1|HAYIR|%0|EVET|%43|1|HAYIR|%0|EVET|%38|1|HAYIR|%0|EVET|%39|4|HAYIR|%0|EVET|%37
↳ |1|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%43|3|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%38|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%60|
↳ 1|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%37
751 750|2026-08-17 18:41:31|2|2/4|HAYIR|%46|%22|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%26|%38|C•B|EVET|%65|%65|TEPE_YON|FRAGMENTARY_2|VADI>VA
↳ DI>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%39|4|EVET|%40|EVET|%38|2|HAYIR|%20|EVET|%32|4|EVET|%40|EVET|%45|3|HAYIR|%60|EVET|%35|2|HAY
↳ IR|%40|EVET|%44|2|HAYIR|%20|EVET|%35|4|EVET|%20|EVET|%28|2|HAYIR|%20|EVET|%35|2|HAYIR|%40|EVET|%25|3|HAYIR|%20|EVET|%27|3|HAYIR|%40|EVET|%96|
↳ 1|HAYIR|%40|EVET|%26|4|EVET|%40|EVET|%35
752 751|2026-08-17 18:41:32|4|2/3|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%35|T•B|EVET|%65|%58|VADI_YON|FRAGMENTARY_2|VADI>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%54|2|HAYIR|%50|EVET|%35|1|EVET|%16|EVET|%27|2|HAYIR|%50|EVET|%48|3|HAYIR|%50|EVET|%34|1|EVET|%33|EVET|%45|
↳ 1|EVET|%16|EVET|%45|3|HAYIR|%33|EVET|%31|2|HAYIR|%16|EVET|%29|3|HAYIR|%33|EVET|%27|2|HAYIR|%16|EVET|%29|2|HAYIR|%33|EVET|%78|1|EVET|%33|EVET|
↳ %25|3|HAYIR|%50|EVET|%27
753 752|2026-08-17 18:41:36|1|1/4|HAYIR|%46|%22|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%36|C•K|EVET|%65|%52|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DALGA_TEK_SIM_3>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%71|1|HAYIR|%42|EVET|%36|2|EVET|%28|EVET|%31|1|HAYIR|%42|EVET|%59|3|HAYIR|%42|EVET|%
↳ 37|1|HAYIR|%42|EVET|%45|1|HAYIR|%28|EVET|%65|3|HAYIR|%28|EVET|%28|1|HAYIR|%14|EVET|%27|1|HAYIR|%28|EVET|%28|1|HAYIR|%14|EVET|%37|4|HAYIR|%28|
↳ EVET|%75|1|HAYIR|%42|EVET|%26|4|HAYIR|%42|EVET|%30
754 753|2026-08-17 18:41:37|2|4/3|HAYIR|%46|%23|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%0|C•B|HAYIR|%65|%0|VADI_YON|FRAGMENTARY_2|VADI>TE
↳ PE>VADI|PATTERN_BREAK:0,59|EVET|%0|4|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0|4|HAYIR|%0|EV
↳ ET|%0|4|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0
755 754|2026-08-17 18:42:24|1|1/3|HAYIR|%46|%22|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%31|T•B|EVET|%65|%56|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DONGU_TERS>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%28|4|EVET|%0|EVET|%41|4|EVET
↳ |%0|EVET|%30|4|EVET|%0|EVET|%37|2|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%27|4|EVET|%0|EVET|%53|2|HAYIR|%0|
↳ EVET|%28|1|HAYIR|%0|EVET|%36
756 755|2026-08-17 18:42:27|4|1/4|EVET|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%31|C•K|EVET|%65|%57|VADI_YON|FRAGMENTARY_2|DONGU_
↳ TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%66|4|HAYIR|%0|EVET|%31|1|EVET|%0|EVET|%28|1|EVET|%0|EVET|%31|4|HAYIR|%0|EVET|%39|1|EVET|%0|EVET|%37|1
↳ |EVET|%0|EVET|%33|3|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%27|1|EVET|%0|EVET|%29|1|EVET|%0|EVET|%54|2|HAYIR|%0|EVET|%28|4|HAY
↳ IR|%0|EVET|%28
757 756|2026-08-17 18:42:28|1|1/2|HAYIR|%46|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%34|T•K|EVET|%65|%54|TEPE_YON|FRAGMENTARY_2|VADI>
↳ BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%66|1|HAYIR|%0|EVET|%34|2|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%48|3|EVET|%0|EVET|%35|1|HAYIR|%0|EVET|%46
↳ |1|HAYIR|%0|EVET|%59|2|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%37|1|HAYIR|%0|EVET|%93|1|HAYIR|%0|EVET|%26|
↳ 4|HAYIR|%0|EVET|%31
758 757|2026-08-17 18:42:29|3|3/1|HAYIR|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%47|T•B|HAYIR|%65|%55|TEPE_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%60|3|HAYIR|%0|EVET|%47|1|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%49|2|EVET|%0|EVET|%29|3|HAYIR|%0|EVE
↳ T|%35|3|HAYIR|%0|EVET|%45|2|EVET|%0|EVET|%31|4|HAYIR|%0|EVET|%33|2|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%50|1|HAYIR|%0|EVET|%
↳ 25|3|HAYIR|%0|EVET|%33
759 758|2026-08-17 18:42:32|2|2/1|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%34|C•B|EVET|%65|%52|DONGU_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%48|1|HAYIR|%0|EVET|%34|2|HAYIR|%40|EVET|%32|1|HAYIR|%20|EVET|%41|2|HAYIR|%80|EVET|%36|1|HAYIR|%40|EV
↳ ET|%33|1|HAYIR|%40|EVET|%39|4|EVET|%20|EVET|%29|2|HAYIR|%0|EVET|%29|4|EVET|%20|EVET|%25|1|HAYIR|%40|EVET|%30|3|HAYIR|%40|EVET|%49|1|HAYIR|%20
↳ |EVET|%26|2|HAYIR|%0|EVET|%29
760 759|2026-08-17 18:42:33|4|1/2|HAYIR|%46|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%27|T•K|EVET|%65|%53|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >VADI>DONGU|PATTERN_BREAK:0,59|EVET|%62|1|HAYIR|%0|EVET|%27|1|HAYIR|%33|EVET|%29|4|HAYIR|%16|EVET|%34|4|HAYIR|%66|EVET|%27|1|HAYIR|%33|EVET|%
↳ 30|1|HAYIR|%33|EVET|%30|3|EVET|%33|EVET|%29|2|HAYIR|%0|EVET|%29|3|EVET|%33|EVET|%27|1|HAYIR|%33|EVET|%27|1|HAYIR|%33|EVET|%43|1|HAYIR|%16|EVE
↳ T|%25|1|HAYIR|%0|EVET|%27
761 760|2026-08-17 18:42:34|3|2/1|HAYIR|%46|%22|EVET|%23|%42|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%40|T•K|EVET|%65|%58|VADI_YON|FRAGMENTARY_2|VADI>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%69|2|HAYIR|%0|EVET|%40|2|HAYIR|%28|EVET|%31|2|HAYIR|%14|EVET|%46|4|HAYIR|%57|EVET|%31|2|HAYIR|%28|EVE
↳ T|%31|2|HAYIR|%28|EVET|%41|2|HAYIR|%42|EVET|%32|2|HAYIR|%0|EVET|%36|2|HAYIR|%42|EVET|%29|2|HAYIR|%28|EVET|%34|2|HAYIR|%28|EVET|%67|1|EVET|%14
↳ |EVET|%25|2|HAYIR|%0|EVET|%33
762 761|2026-08-17 18:42:37|1|4/1|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%33|T•B|EVET|%66|%54|DONGU_YON|FRAGMENTARY_2|VADI
↳ >VADI>DONGU|PATTERN_BREAK:0,59|EVET|%42|2|HAYIR|%0|EVET|%33|1|HAYIR|%25|EVET|%30|1|HAYIR|%12|EVET|%35|3|EVET|%50|EVET|%40|4|HAYIR|%25|EVET|%4
↳ 0|4|HAYIR|%25|EVET|%41|3|EVET|%37|EVET|%28|4|HAYIR|%0|EVET|%31|1|HAYIR|%37|EVET|%27|4|HAYIR|%25|EVET|%28|4|HAYIR|%25|EVET|%66|1|HAYIR|%25|EVE
↳ T|%26|2|HAYIR|%0|EVET|%32
763 762|2026-08-17 18:42:39|3|4/3|HAYIR|%46|%22|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%39|T•B|EVET|%66|%58|DONGU_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%29|3|EVET|%0|EVET|%39|2|HAYIR|%22|EVET|%28|3|EVET|%11|EVET|%47|2|HAYIR|%55|EVET|%27|4|HAYIR|%22|EVET
↳ |%40|4|HAYIR|%22|EVET|%55|2|HAYIR|%44|EVET|%31|2|HAYIR|%0|EVET|%30|2|HAYIR|%33|EVET|%29|4|HAYIR|%22|EVET|%31|4|HAYIR|%22|EVET|%97|2|HAYIR|%22
↳ |EVET|%28|3|EVET|%0|EVET|%32
764 763|2026-08-17 18:42:39|3|2/1|EVET|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%26|%44|C•K|EVET|%66|%64|DONGU_TERS_YON|FRAGMENTARY_2|B
↳ LOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%64|2|EVET|%10|EVET|%44|1|HAYIR|%20|EVET|%33|2|EVET|%20|EVET|%37|2|EVET|%50|EVET|%32|2|EVET|
↳ %20|EVET|%35|2|EVET|%20|EVET|%53|2|EVET|%40|EVET|%32|1|HAYIR|%0|EVET|%42|2|EVET|%30|EVET|%28|2|EVET|%20|EVET|%34|2|EVET|%20|EVET|%89|2|EVET|%
↳ 20|EVET|%28|2|EVET|%10|EVET|%34
765 764|2026-08-17 18:42:42|2|2/4|HAYIR|%46|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%33|T•K|HAYIR|%66|%50|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_TERS>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%48|2|HAYIR|%18|EVET|%33|2|HAYIR|%18|EVET|%32|2|HAYIR|%27|EVET|%46|1|HAYIR|%54|EVET|%29|2|
↳ HAYIR|%27|EVET|%31|2|HAYIR|%27|EVET|%33|4|EVET|%45|EVET|%29|3|HAYIR|%0|EVET|%30|4|EVET|%36|EVET|%26|2|HAYIR|%27|EVET|%30|3|HAYIR|%27|EVET|%51
↳ |2|HAYIR|%27|EVET|%27|2|HAYIR|%18|EVET|%28
766 765|2026-08-17 18:42:43|4|3/2|HAYIR|%46|%22|HAYIR|%23|%46|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%29|T•K|EVET|%66|%55|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>TEPE||HAYIR|%61|2|HAYIR|%16|EVET|%29|1|EVET|%16|EVET|%32|3|HAYIR|%25|EVET|%39|4|HAYIR|%50|EVET|%29|2|HAYIR|%25|EVET|%44|2|HAYIR|%25
↳ |EVET|%40|3|HAYIR|%50|EVET|%31|2|HAYIR|%0|EVET|%26|3|HAYIR|%41|EVET|%28|2|HAYIR|%25|EVET|%27|1|EVET|%25|EVET|%38|2|HAYIR|%25|EVET|%28|3|HAYIR
↳ |%16|EVET|%28
767 766|2026-08-17 18:42:45|1|3/4|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%38|T•K|EVET|%66|%58|VADI_YON|FRAGMENTARY_2|VADI>
↳ DONGU>VADI|PATTERN_BREAK:0,59|EVET|%35|4|HAYIR|%15|EVET|%38|2|EVET|%23|EVET|%29|4|HAYIR|%23|EVET|%44|1|HAYIR|%46|EVET|%28|3|HAYIR|%23|EVET|%2
↳ 7|4|HAYIR|%23|EVET|%35|3|HAYIR|%46|EVET|%29|4|HAYIR|%0|EVET|%33|1|HAYIR|%38|EVET|%27|4|HAYIR|%23|EVET|%29|4|HAYIR|%30|EVET|%79|2|EVET|%23|EVE
↳ T|%27|4|HAYIR|%15|EVET|%30
768 767|2026-08-17 18:42:46|2|1/4|HAYIR|%46|%22|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%41|C•K|EVET|%66|%59|VADI_YON|FRAGMENTARY_2|VADI>DO
↳ NGU>VADI|PATTERN_BREAK:0,59|EVET|%37|4|EVET|%14|EVET|%41|1|HAYIR|%28|EVET|%30|1|HAYIR|%21|EVET|%65|1|HAYIR|%42|EVET|%38|4|EVET|%21|EVET|%40|4
↳ |EVET|%21|EVET|%54|4|EVET|%42|EVET|%30|4|EVET|%0|EVET|%30|4|EVET|%35|EVET|%27|4|EVET|%21|EVET|%32|4|EVET|%28|EVET|%98|2|HAYIR|%28|EVET|%28|4|
↳ EVET|%14|EVET|%40
769 768|2026-08-17 18:42:47|4|2/3|HAYIR|%46|%22|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%31|T•K|HAYIR|%66|%58|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%20|EVET|%31|2|HAYIR|%26|EVET|%29|2|HAYIR|%20|EVET|%35|3|HAYIR|%40|EVET|%31|3|HAYIR|%26|EVET
↳ |%44|3|HAYIR|%26|EVET|%40|3|HAYIR|%46|EVET|%30|2|HAYIR|%6|EVET|%29|3|HAYIR|%40|EVET|%27|3|HAYIR|%26|EVET|%33|2|HAYIR|%33|EVET|%69|2|HAYIR|%26
↳ |EVET|%28|1|HAYIR|%20|EVET|%28
770 769|2026-08-17 18:42:49|4|1/3|EVET|%46|%22|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%43|T•K|EVET|%66|%58|VADI_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>VADI|PATTERN_BREAK:0,59|EVET|%44|1|EVET|%18|EVET|%43|1|EVET|%25|EVET|%28|3|HAYIR|%18|EVET|%34|1|EVET|%37|EVET|%40|1|EVET|%25|EVET|%45|1|E
↳ VET|%25|EVET|%58|1|EVET|%43|EVET|%32|1|EVET|%6|EVET|%38|3|HAYIR|%37|EVET|%27|1|EVET|%25|EVET|%37|1|EVET|%31|EVET|%94|1|EVET|%25|EVET|%25|1|EV
↳ ET|%18|EVET|%28
771 770|2026-08-17 18:42:51|1|4/3|EVET|%46|%22|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%26|%42|T•B|EVET|%66|%52|DONGU_TERS_YON|FRAGMENTARY_2|V
↳ ADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%31|4|EVET|%23|EVET|%42|2|HAYIR|%29|EVET|%31|4|EVET|%17|EVET|%64|3|HAYIR|%41|EVET|%28|1|HAYIR|%2
↳ 9|EVET|%45|4|EVET|%29|EVET|%46|3|HAYIR|%47|EVET|%28|4|EVET|%11|EVET|%30|1|HAYIR|%35|EVET|%27|4|EVET|%29|EVET|%30|4|EVET|%35|EVET|%92|1|HAYIR|
↳ %29|EVET|%26|4|EVET|%23|EVET|%28
772 771|2026-08-17 18:42:51|4|4/3|HAYIR|%46|%22|EVET|%23|%39|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%46|C•B|EVET|%66|%57|DONGU_TERS_YON|FRAGMENTARY_2|
↳ ARTIS>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%55|4|HAYIR|%27|EVET|%46|1|HAYIR|%27|EVET|%30|4|HAYIR|%22|EVET|%70|3|EVET|%38|EVET|%31|4|
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[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 772 ve sonrası)

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↳ HAYIR|%27|EVET|%42|4|HAYIR|%33|EVET|%67|3|EVET|%44|EVET|%30|4|HAYIR|%16|EVET|%39|3|EVET|%33|EVET|%27|4|HAYIR|%33|EVET|%39|4|HAYIR|%38|EVET|%6
↳ 8|1|HAYIR|%27|EVET|%25|4|HAYIR|%27|EVET|%28
773 772|2026-08-17 18:42:52|3|2/1|HAYIR|%46|%22|EVET|%23|%43|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%36|T•K|EVET|%66|%53|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%70|2|HAYIR|%26|EVET|%36|2|HAYIR|%26|EVET|%29|2|HAYIR|%21|EVET|%44|3|HAYIR|%42|EVET|%33|1|
↳ EVET|%26|EVET|%45|2|HAYIR|%31|EVET|%35|2|HAYIR|%47|EVET|%31|2|HAYIR|%15|EVET|%31|2|HAYIR|%36|EVET|%29|2|HAYIR|%31|EVET|%31|2|HAYIR|%36|EVET|%
↳ 70|1|EVET|%26|EVET|%25|2|HAYIR|%26|EVET|%32
774 773|2026-08-17 18:42:53|1|4/1|HAYIR|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%27|C•B|EVET|%66|%55|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DONGU_TERS>TEPE>DONGU_TERS||HAYIR|%47|2|HAYIR|%25|EVET|%27|1|HAYIR|%25|EVET|%30|4|HAYIR|%20|EVET|%33|3|EVET|%40|EVET|%44|4|HAYIR|%30|EVET|%4
↳ 2|4|HAYIR|%30|EVET|%46|3|EVET|%45|EVET|%28|4|HAYIR|%15|EVET|%31|1|HAYIR|%35|EVET|%26|4|HAYIR|%30|EVET|%32|4|HAYIR|%35|EVET|%63|1|HAYIR|%30|EV
↳ ET|%26|2|HAYIR|%25|EVET|%31
775 774|2026-08-17 18:42:54|3|4/3|HAYIR|%46|%22|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%49|T•B|EVET|%66|%54|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>VADI>DONGU_TERS||HAYIR|%45|3|HAYIR|%23|EVET|%49|2|HAYIR|%23|EVET|%30|3|HAYIR|%19|EVET|%62|3|HAYIR|%42|EVET|%30|3|HAYIR|%28|EVET|%32|4|H
↳ AYIR|%28|EVET|%44|2|HAYIR|%47|EVET|%31|4|HAYIR|%14|EVET|%27|2|HAYIR|%33|EVET|%29|3|HAYIR|%28|EVET|%33|4|HAYIR|%33|EVET|%94|1|EVET|%28|EVET|%2
↳ 5|3|HAYIR|%23|EVET|%34
776 775|2026-08-17 18:42:55|1|3/2|HAYIR|%46|%22|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%0|T•K|HAYIR|%66|%0|DONGU_YON|FRAGMENTARY_2|DONGU>
↳ VADI>DONGU|PATTERN_BREAK:0,59|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|
↳ %0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|
↳ %0
777 776|2026-08-17 18:43:53|4|3/2|HAYIR|%46|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%33|C•K|EVET|%66|%53|DONGU_YON|FRAGMENTARY_2|DONGU
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%51|3|HAYIR|%0|EVET|%33|2|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%48|2|EVET|%0|EVET|%26|3|HAYIR|%0|EVET|%30|3|
↳ HAYIR|%0|EVET|%38|3|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%37|3|HAYIR|%0|EVET|%27|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%87|2|EVET|%0|EVET|%28|3|HA
↳ YIR|%0|EVET|%30
778 777|2026-08-17 18:43:54|2|1/3|HAYIR|%46|%22|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%36|T•K|HAYIR|%66|%56|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%28|3|HAYIR|%0|EVET|%36|1|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%45|2|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%33|
↳ 1|HAYIR|%0|EVET|%35|4|EVET|%0|EVET|%31|1|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%28|1|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%50|2|HAYIR|%0|EVET|%27|4|E
↳ VET|%0|EVET|%28
779 778|2026-08-17 18:43:59|4|3/2|HAYIR|%46|%22|EVET|%23|%25|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%26|T•K|EVET|%66|%54|DONGU_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%26|1|HAYIR|%0|EVET|%26|2|EVET|%0|EVET|%29|4|HAYIR|%0|EVET|%47|4|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%
↳ 45|1|HAYIR|%0|EVET|%42|3|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%67|2|EVET|%0|EVET|%28
↳ |1|HAYIR|%0|EVET|%28
780 779|2026-08-17 18:44:00|2|1/3|HAYIR|%46|%22|EVET|%23|%28|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%31|T•B|EVET|%66|%63|DONGU_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%42|3|EVET|%0|EVET|%29|1|HAYIR|%0|EVET|%
↳ 32|4|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%27|4|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%87|2|HAYIR|%0|EVET|%2
↳ 7|4|HAYIR|%0|EVET|%28
781 780|2026-08-17 18:44:05|3|2/1|EVET|%46|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%37|T•K|EVET|%66|%59|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%0|EVET|%37|2|EVET|%40|EVET|%29|3|HAYIR|%0|EVET|%32|1|HAYIR|%40|EVET|%28|1|HAYIR|%0|EVET
↳ |%28|1|HAYIR|%0|EVET|%38|1|HAYIR|%20|EVET|%31|2|EVET|%0|EVET|%27|2|EVET|%20|EVET|%28|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%88|2|EVET|%40|EVET|
↳ %28|1|HAYIR|%20|EVET|%32
782 781|2026-08-17 18:44:06|2|1/3|HAYIR|%46|%22|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%26|%33|C•B|EVET|%66|%61|DONGU_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%35|4|EVET|%0|EVET|%33|1|HAYIR|%50|EVET|%28|4|EVET|%0|EVET|%33|1|HAYIR|%33|EVET|%27|4|EVET|%0|EVET|%
↳ 42|4|EVET|%0|EVET|%51|4|EVET|%16|EVET|%32|4|EVET|%16|EVET|%30|4|EVET|%33|EVET|%28|4|EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%52|2|HAYIR|%50|EVET|%27
↳ |4|EVET|%16|EVET|%29
783 782|2026-08-17 18:44:08|4|2/1|EVET|%46|%22|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%29|T•K|EVET|%66|%60|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>DONGU||HAYIR|%50|1|HAYIR|%14|EVET|%29|2|EVET|%42|EVET|%31|4|HAYIR|%14|EVET|%41|4|HAYIR|%28|EVET|%34|1|HAYIR|%14|EVET|%44|1|HAYIR|%
↳ 14|EVET|%40|3|HAYIR|%28|EVET|%30|3|HAYIR|%28|EVET|%29|3|HAYIR|%42|EVET|%27|1|HAYIR|%14|EVET|%27|1|HAYIR|%0|EVET|%49|2|EVET|%42|EVET|%28|1|HAY
↳ IR|%28|EVET|%28
784 783|2026-08-17 18:44:12|2|1/3|EVET|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%37|T•B|EVET|%66|%59|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>DONGU||HAYIR|%61|3|HAYIR|%12|EVET|%37|1|EVET|%50|EVET|%27|3|HAYIR|%12|EVET|%39|3|HAYIR|%25|EVET|%27|3|HAYIR|%12|EVET|%43|3|HAYIR|%12|EV
↳ ET|%37|4|HAYIR|%25|EVET|%33|1|EVET|%25|EVET|%28|4|HAYIR|%37|EVET|%29|3|HAYIR|%12|EVET|%30|1|EVET|%0|EVET|%87|1|EVET|%50|EVET|%25|4|HAYIR|%25|
↳ EVET|%28
785 784|2026-08-17 18:44:15|1|3/4|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|C•K|EVET|%66|%51|DONGU_YON|FRAGMENTARY_2|VADI
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%11|EVET|%32|2|EVET|%55|EVET|%33|2|EVET|%11|EVET|%46|4|HAYIR|%22|EVET|%37|3|HAYIR|%11|EVET|%
↳ 43|3|HAYIR|%11|EVET|%40|3|HAYIR|%22|EVET|%28|4|HAYIR|%33|EVET|%33|3|HAYIR|%33|EVET|%26|2|EVET|%11|EVET|%28|1|HAYIR|%11|EVET|%48|1|HAYIR|%55|E
↳ VET|%25|1|HAYIR|%22|EVET|%35
786 785|2026-08-17 18:44:18|2|1/3|HAYIR|%46|%22|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%49|C•B|EVET|%66|%52|DONGU_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%60|4|HAYIR|%10|EVET|%49|1|HAYIR|%60|EVET|%32|4|HAYIR|%20|EVET|%41|1|HAYIR|%20|EVET|%36|3|HAYIR|%10|
↳ EVET|%30|3|HAYIR|%10|EVET|%46|4|HAYIR|%20|EVET|%32|4|HAYIR|%30|EVET|%29|4|HAYIR|%30|EVET|%28|4|HAYIR|%20|EVET|%33|3|HAYIR|%10|EVET|%93|1|HAYI
↳ R|%50|EVET|%25|4|HAYIR|%20|EVET|%40
787 786|2026-08-17 18:44:20|2|3/4|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%35|T•B|HAYIR|%66|%52|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%43|1|HAYIR|%9|EVET|%35|2|EVET|%54|EVET|%33|4|HAYIR|%18|EVET|%27|1|HAYIR|%18|EVET|%36|1|HAYIR|%9|EVET|%
↳ 44|1|HAYIR|%9|EVET|%40|1|HAYIR|%18|EVET|%30|2|EVET|%27|EVET|%28|4|HAYIR|%27|EVET|%28|1|HAYIR|%18|EVET|%30|3|HAYIR|%9|EVET|%81|1|HAYIR|%45|EVE
↳ T|%25|1|HAYIR|%18|EVET|%29
788 787|2026-08-17 18:44:21|2|1/3|HAYIR|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|T•B|EVET|%66|%54|DONGU_YON|FRAGMENTARY_2|VADI
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%71|1|HAYIR|%8|EVET|%32|1|HAYIR|%58|EVET|%28|1|HAYIR|%16|EVET|%29|3|HAYIR|%16|EVET|%35|3|HAYIR|%8|EVET|%
↳ 29|3|HAYIR|%8|EVET|%34|3|HAYIR|%16|EVET|%46|1|HAYIR|%33|EVET|%32|4|EVET|%25|EVET|%28|3|HAYIR|%16|EVET|%29|3|HAYIR|%8|EVET|%67|1|HAYIR|%41|EVE
↳ T|%25|1|HAYIR|%16|EVET|%28
789 788|2026-08-17 18:44:28|4|2/3|HAYIR|%46|%22|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%32|T•K|EVET|%66|%64|DONGU_YON|FRAGMENTARY_2|VADI
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%64|2|HAYIR|%7|EVET|%32|2|HAYIR|%53|EVET|%36|4|HAYIR|%15|EVET|%50|3|HAYIR|%15|EVET|%40|2|HAYIR|%7|EVET|%
↳ 46|2|HAYIR|%7|EVET|%32|2|HAYIR|%15|EVET|%31|2|HAYIR|%30|EVET|%28|3|HAYIR|%30|EVET|%27|2|HAYIR|%15|EVET|%30|1|EVET|%7|EVET|%63|1|EVET|%38|EVET
↳ |%25|1|EVET|%15|EVET|%27
790 789|2026-08-17 18:44:30|1|2/1|HAYIR|%46|%22|EVET|%23|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%37|C•K|EVET|%66|%55|VADI_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU>VADI|PATTERN_BREAK:0,59|EVET|%45|4|HAYIR|%7|EVET|%37|1|EVET|%50|EVET|%28|2|HAYIR|%14|EVET|%50|3|HAYIR|%14|EVET|%32|2|HAYIR|%7|EVET|%33|4
↳ |HAYIR|%7|EVET|%38|2|HAYIR|%14|EVET|%28|4|HAYIR|%28|EVET|%32|3|HAYIR|%28|EVET|%26|4|HAYIR|%14|EVET|%29|4|HAYIR|%14|EVET|%78|2|HAYIR|%42|EVET|
↳ %28|4|HAYIR|%21|EVET|%31
791 790|2026-08-17 18:44:31|1|2/3|HAYIR|%46|%22|EVET|%23|%41|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%27|C•K|HAYIR|%66|%58|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%68|1|HAYIR|%6|EVET|%27|2|HAYIR|%53|EVET|%34|1|HAYIR|%13|EVET|%37|3|EVET|%13|EVET|%36|3|EVET|%
↳ 6|EVET|%29|3|EVET|%6|EVET|%31|4|HAYIR|%13|EVET|%28|2|HAYIR|%26|EVET|%30|1|HAYIR|%26|EVET|%26|2|HAYIR|%13|EVET|%28|2|HAYIR|%13|EVET|%68|2|HAYI
↳ R|%40|EVET|%27|3|EVET|%20|EVET|%30
792 791|2026-08-17 18:44:34|3|4/1|EVET|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%40|T•B|EVET|%66|%57|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
↳ |DONGU>DONGU>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%56|3|HAYIR|%6|EVET|%40|1|HAYIR|%50|EVET|%29|3|HAYIR|%12|EVET|%42|1|HAYIR|%18
↳ |EVET|%26|1|HAYIR|%12|EVET|%32|3|HAYIR|%12|EVET|%38|2|HAYIR|%12|EVET|%32|1|HAYIR|%25|EVET|%37|2|HAYIR|%25|EVET|%28|3|HAYIR|%12|EVET|%29|3|HAY
↳ IR|%12|EVET|%80|2|HAYIR|%37|EVET|%28|3|HAYIR|%25|EVET|%33
793 792|2026-08-17 18:44:36|4|2/1|HAYIR|%46|%22|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%0|T•B|EVET|%66|%0|VADI_YON|FRAGMENTARY_2|DONGU>DO
↳ NGU>VADI|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|HAYIR|%0|
↳ EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|H
↳ AYIR|%0|EVET|%0
794 793|2026-08-17 18:44:41|3|1/4|HAYIR|%46|%22|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%33|C•B|EVET|%66|%60|TEPE_YON|FRAGMENTARY_2|DONGU
↳ >DONGU>TEPE||HAYIR|%61|2|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%3
↳ 0|2|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%35|2|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|%29|4|HAYIR|%0|EVET|%61|2|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|%30
795 794|2026-08-17 18:44:42|3|2/3|HAYIR|%46|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%44|T•B|EVET|%66|%54|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%56|1|HAYIR|%0|EVET|%44|2|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%34|2|HAYIR|%0|EVET|%44|1|HAYIR|%0|EVET|%44|1|
↳ HAYIR|%0|EVET|%63|2|HAYIR|%0|EVET|%34|2|HAYIR|%0|EVET|%36|2|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%83|1|HAYIR|%0|EVET|%25|2|H
↳ AYIR|%0|EVET|%34
796 795|2026-08-17 18:44:43|3|1/4|HAYIR|%46|%22|EVET|%23|%36|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%51|T•K|HAYIR|%66|%64|VADI_YON|FRAGMENTARY_2|DONGU
↳ >DONGU>VADI|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%0|EVET|%51|1|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%49|2|HAYIR|%0|EVET|%27|2
↳ |HAYIR|%0|EVET|%44|2|HAYIR|%0|EVET|%46|1|HAYIR|%0|EVET|%38|2|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%94|1|HAYIR|%0|EVET|%25|2|
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[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 796 ve sonrası)

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HAYIR|%0|EVET|%33
796|2026-08-17 18:44:44|4|2/3|EVET|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%39|T•K|EVET|%66|%57|TEPE_YON|FRAGMENTARY_2|DONGU_
TERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%67|3|HAYIR|%0|EVET|%39|2|EVET|%0|EVET|%31|2|EVET|%0|EVET|%53|1|HAYIR|%0|EVET|%34|2|EVET|%0|EVET|%44|
2|EVET|%0|EVET|%37|3|HAYIR|%0|EVET|%30|2|EVET|%0|EVET|%27|3|HAYIR|%0|EVET|%26|2|EVET|%0|EVET|%34|2|EVET|%0|EVET|%57|1|HAYIR|%0|EVET|%25|2|EVE
T|%0|EVET|%35
797|2026-08-17 18:44:46|2|4/1|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%32|T•K|EVET|%66|%53|TEPE_YON|FRAGMENTARY_2|DONGU_
TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%47|3|EVET|%0|EVET|%32|1|HAYIR|%20|EVET|%27|3|EVET|%20|EVET|%50|1|HAYIR|%0|EVET|%33|2|HAYIR|%20|EVET|%
44|2|HAYIR|%40|EVET|%34|4|HAYIR|%0|EVET|%32|4|HAYIR|%20|EVET|%30|4|HAYIR|%20|EVET|%28|2|HAYIR|%20|EVET|%27|3|EVET|%40|EVET|%77|1|HAYIR|%0|EVE
T|%25|4|HAYIR|%20|EVET|%27
798|2026-08-17 18:44:47|3|2/3|HAYIR|%46|%22|EVET|%24|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%39|T•K|EVET|%66|%58|DONGU_TERS_YON|FRAGMENTARY_2|
DONGU>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%58|1|HAYIR|%16|EVET|%39|2|HAYIR|%16|EVET|%32|1|HAYIR|%33|EVET|%56|1|HAYIR|%0|EVET|%30|1|
HAYIR|%16|EVET|%33|1|HAYIR|%33|EVET|%46|2|HAYIR|%0|EVET|%31|2|HAYIR|%16|EVET|%34|2|HAYIR|%16|EVET|%27|1|HAYIR|%16|EVET|%33|1|HAYIR|%50|EVET|%
88|1|HAYIR|%0|EVET|%25|1|HAYIR|%16|EVET|%32
799|2026-08-17 18:44:49|3|4/3|HAYIR|%46|%22|HAYIR|%24|%31|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%41|T•K|EVET|%66|%60|VADI_YON|FRAGMENTARY_2|DONGU
>BLOK_DUZ>VADI|PATTERN_BREAK:0,59|EVET|%49|2|HAYIR|%14|EVET|%41|4|HAYIR|%14|EVET|%34|4|HAYIR|%28|EVET|%31|1|EVET|%0|EVET|%34|4|HAYIR|%14|EVET
|%42|2|HAYIR|%28|EVET|%33|2|HAYIR|%0|EVET|%34|1|EVET|%14|EVET|%35|2|HAYIR|%14|EVET|%26|1|EVET|%14|EVET|%29|1|EVET|%42|EVET|%57|1|EVET|%0|EVET
|%25|2|HAYIR|%14|EVET|%32
800|2026-08-17 18:44:50|1|2/4|EVET|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%30|T•B|HAYIR|%66|%54|TEPE_YON|FRAGMENTARY_2|TEPE>V
ADI>TEPE|PATTERN_BREAK:0,59|EVET|%48|2|EVET|%12|EVET|%30|2|EVET|%12|EVET|%32|4|HAYIR|%25|EVET|%46|1|HAYIR|%12|EVET|%28|3|HAYIR|%12|EVET|%32|2
|EVET|%25|EVET|%37|3|HAYIR|%0|EVET|%29|3|HAYIR|%25|EVET|%28|3|HAYIR|%12|EVET|%26|2|EVET|%25|EVET|%28|4|HAYIR|%50|EVET|%37|2|EVET|%12|EVET|%27
|2|EVET|%12|EVET|%32
801|2026-08-17 18:44:51|2|4/1|HAYIR|%46|%22|EVET|%24|%32|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%41|C•K|EVET|%66|%53|DONGU_YON|FRAGMENTARY_2|VADI>
TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%46|4|HAYIR|%22|EVET|%41|1|EVET|%22|EVET|%29|2|HAYIR|%22|EVET|%31|3|HAYIR|%11|EVET|%32|4|HAYIR|%11|EVET|%4
1|4|HAYIR|%33|EVET|%51|4|HAYIR|%0|EVET|%31|4|HAYIR|%22|EVET|%30|4|HAYIR|%11|EVET|%28|4|HAYIR|%33|EVET|%32|4|HAYIR|%44|EVET|%46|2|HAYIR|%22|EV
ET|%28|4|HAYIR|%22|EVET|%39
802|2026-08-17 18:44:53|1|2/3|HAYIR|%46|%22|HAYIR|%24|%36|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%31|C•B|HAYIR|%66|%54|TEPE_YON|FRAGMENTARY_2|VADI
>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%58|3|HAYIR|%20|EVET|%31|2|HAYIR|%30|EVET|%33|3|HAYIR|%20|EVET|%36|4|HAYIR|%10|EVET|%37|4|HAYIR|%10|EVET|%
41|4|HAYIR|%30|EVET|%58|2|HAYIR|%0|EVET|%28|2|HAYIR|%20|EVET|%32|3|HAYIR|%10|EVET|%26|4|HAYIR|%30|EVET|%31|4|HAYIR|%40|EVET|%53|2|HAYIR|%20|E
VET|%28|1|EVET|%20|EVET|%33
803|2026-08-17 18:44:54|1|1/4|EVET|%46|%22|HAYIR|%24|%33|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%29|T•B|EVET|%66|%62|DONGU_TERS_YON|FRAGMENTARY_2|
BLOK_DUZ>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%45|4|HAYIR|%18|EVET|%29|1|EVET|%27|EVET|%30|1|EVET|%18|EVET|%43|4|HAYIR|%9|EVET|%31|4|HAYIR
|%9|EVET|%41|4|HAYIR|%27|EVET|%44|3|HAYIR|%0|EVET|%31|1|EVET|%18|EVET|%28|1|EVET|%9|EVET|%26|4|HAYIR|%27|EVET|%30|4|HAYIR|%36|EVET|%60|2|HAYI
R|%18|EVET|%28|3|HAYIR|%27|EVET|%32
804|2026-08-17 18:44:55|1|3/2|EVET|%46|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%30|T•B|EVET|%66|%54|TEPE_YON|FRAGMENTARY_2|BLOK_DU
Z>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%57|3|EVET|%16|EVET|%30|2|HAYIR|%33|EVET|%32|1|HAYIR|%25|EVET|%35|3|EVET|%8|EVET|%29|3|EVET|%8|EVET|%44|3
|EVET|%25|EVET|%53|3|EVET|%0|EVET|%32|1|HAYIR|%25|EVET|%28|1|HAYIR|%16|EVET|%27|3|EVET|%25|EVET|%30|2|HAYIR|%33|EVET|%75|2|HAYIR|%16|EVET|%27
|3|EVET|%25|EVET|%31
805|2026-08-17 18:45:02|3|4/1|HAYIR|%46|%22|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%38|C•K|EVET|%66|%57|VADI_YON|FRAGMENTARY_2|TEPE>
TEPE>VADI||HAYIR|%55|3|HAYIR|%23|EVET|%38|1|HAYIR|%30|EVET|%30|4|HAYIR|%23|EVET|%39|2|EVET|%15|EVET|%27|1|HAYIR|%15|EVET|%29|3|HAYIR|%30|EVET
|%36|2|EVET|%7|EVET|%30|1|HAYIR|%23|EVET|%29|1|HAYIR|%15|EVET|%27|3|HAYIR|%30|EVET|%27|3|HAYIR|%30|EVET|%73|2|EVET|%15|EVET|%28|3|HAYIR|%30|E
VET|%32
806|2026-08-17 18:45:05|2|2/3|HAYIR|%46|%22|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%31|C•K|EVET|%66|%59|VADI_YON|FRAGMENTARY_2|TEPE>
DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%45|4|HAYIR|%21|EVET|%31|2|HAYIR|%28|EVET|%40|4|HAYIR|%21|EVET|%46|2|HAYIR|%21|EVET|%30|3|HAYIR|%14|E
VET|%44|1|EVET|%28|EVET|%31|4|HAYIR|%14|EVET|%30|3|HAYIR|%21|EVET|%32|4|HAYIR|%14|EVET|%28|3|HAYIR|%28|EVET|%26|3|HAYIR|%28|EVET|%49|2|HAYIR|
%21|EVET|%28|4|HAYIR|%28|EVET|%31
807|2026-08-17 18:45:09|1|1/3|EVET|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%35|C•K|EVET|%66|%50|DONGU_YON|FRAGMENTARY_2|VADI>V
ADI>DONGU|PATTERN_BREAK:0,59|EVET|%70|1|EVET|%20|EVET|%35|1|EVET|%26|EVET|%28|1|EVET|%20|EVET|%45|4|HAYIR|%20|EVET|%31|1|EVET|%13|EVET|%33|1|
EVET|%33|EVET|%43|2|HAYIR|%13|EVET|%28|3|HAYIR|%20|EVET|%29|1|EVET|%13|EVET|%27|1|EVET|%26|EVET|%32|2|HAYIR|%26|EVET|%73|1|EVET|%20|EVET|%26|
1|EVET|%26|EVET|%36
808|2026-08-17 18:45:17|1|1/3|HAYIR|%46|%22|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|T•B|HAYIR|%66|%60|DONGU_YON|FRAGMENTARY_2|BLO
K_DUZ>TEPE>DONGU||HAYIR|%49|1|HAYIR|%25|EVET|%32|2|EVET|%31|EVET|%33|1|HAYIR|%25|EVET|%32|3|HAYIR|%18|EVET|%30|1|HAYIR|%18|EVET|%46|1|HAYIR|%
37|EVET|%46|3|HAYIR|%12|EVET|%31|3|HAYIR|%18|EVET|%29|1|HAYIR|%18|EVET|%28|1|HAYIR|%31|EVET|%32|4|HAYIR|%25|EVET|%59|1|HAYIR|%25|EVET|%26|3|H
AYIR|%31|EVET|%33
809|2026-08-17 18:45:25|2|4/1|HAYIR|%46|%22|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%51|C•B|EVET|%66|%57|TEPE_YON|FRAGMENTARY_2|TEPE>
DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%47|4|HAYIR|%23|EVET|%51|1|HAYIR|%35|EVET|%29|4|HAYIR|%23|EVET|%47|1|HAYIR|%17|EVET|%31|4|HAYIR|%17|EVET|%
40|4|HAYIR|%35|EVET|%66|4|HAYIR|%11|EVET|%30|3|HAYIR|%17|EVET|%31|4|HAYIR|%17|EVET|%27|4|HAYIR|%29|EVET|%38|3|HAYIR|%23|EVET|%87|1|HAYIR|%23|
EVET|%26|4|HAYIR|%29|EVET|%37
810|2026-08-17 18:46:33|2|2/3|HAYIR|%46|%22|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%0|T•B|HAYIR|%66|%0|DONGU_TERS_YON|FRAGMENTARY_2|TE
PE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%0|2|EVET|%0|EVET|%0|2|EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|
EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%0|
EVET|%0
811|2026-08-17 19:03:12|2|3/1|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%27|C•B|EVET|%66|%54|TEPE_YON|FRAGMENTARY_2|BLOK_T
ERS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%46|2|EVET|%0|EVET|%27|1|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVE
T|%43|3|HAYIR|%0|EVET|%40|3|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%33|4|HAYIR|%0|EVET|%25|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%47|2|EVET|%0|EVET|
%29|1|HAYIR|%0|EVET|%27
812|2026-08-17 19:03:13|2|2/1|EVET|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|T•B|HAYIR|%66|%59|VADI_YON|FRAGMENTARY_2|BLOK_
DUZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%38|1|HAYIR|%0|EVET|%36|2|EVET|%0|EVET|%34|3|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%45|
1|HAYIR|%0|EVET|%50|1|HAYIR|%0|EVET|%51|2|EVET|%0|EVET|%37|4|HAYIR|%0|EVET|%25|1|HAYIR|%0|EVET|%35|1|HAYIR|%0|EVET|%68|2|EVET|%0|EVET|%29|2|E
VET|%0|EVET|%27
813|2026-08-17 19:03:14|2|1/2|HAYIR|%46|%22|HAYIR|%23|%44|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|T•K|HAYIR|%66|%56|VADI_YON|FRAGMENTARY_2|TEPE
>VADI>VADI||HAYIR|%55|1|HAYIR|%0|EVET|%36|1|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%45|1|HAYIR|%0|EVET|%50
|4|EVET|%0|EVET|%32|2|HAYIR|%0|EVET|%33|4|EVET|%0|EVET|%25|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%61|2|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%28
814|2026-08-17 19:03:16|4|2/3|HAYIR|%46|%22|EVET|%23|%33|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%35|T•K|EVET|%66|%58|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
|DONGU_TERS>VADI>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%54|1|HAYIR|%0|EVET|%35|2|HAYIR|%0|EVET|%35|1|HAYIR|%0|EVET|%35|3|EVET|%0
|EVET|%43|2|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%42|2|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%39|3|EVET|%0|EVET|%28|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|E
VET|%45|2|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%26
815|2026-08-17 19:03:17|3|1/2|HAYIR|%46|%22|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%36|T•K|EVET|%66|%55|TEPE_YON|FRAGMENTARY_2|VADI>DO
NGU>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%40|2|EVET|%40|EVET|%36|1|HAYIR|%40|EVET|%29|2|EVET|%0|EVET|%58|3|HAYIR|%20|EVET|%41|2|EVE
T|%0|EVET|%34|2|EVET|%20|EVET|%37|2|EVET|%20|EVET|%31|1|HAYIR|%20|EVET|%34|2|EVET|%40|EVET|%29|2|EVET|%0|EVET|%34|1|HAYIR|%0|EVET|%44|2|EVET|
%40|EVET|%28|2|EVET|%20|EVET|%30
816|2026-08-17 19:03:19|2|2/3|EVET|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%30|C•K|EVET|%66|%55|TEPE_YON|FRAGMENTARY_2|TEPE>DO
NGU>TEPE|PATTERN_BREAK:0,59|EVET|%28|2|EVET|%50|EVET|%30|2|EVET|%33|EVET|%42|2|EVET|%16|EVET|%64|2|EVET|%16|EVET|%29|3|HAYIR|%16|EVET|%43|2|E
VET|%33|EVET|%32|4|HAYIR|%33|EVET|%30|2|EVET|%16|EVET|%39|4|HAYIR|%50|EVET|%26|2|EVET|%16|EVET|%32|2|EVET|%0|EVET|%52|1|HAYIR|%50|EVET|%27|4|
HAYIR|%33|EVET|%29
817|2026-08-17 19:03:21|2|1/2|HAYIR|%46|%22|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%26|%38|C•K|EVET|%66|%52|TEPE_YON|FRAGMENTARY_2|VADI>TE
PE>TEPE|PATTERN_BREAK:0,59|EVET|%33|2|EVET|%57|EVET|%38|1|HAYIR|%42|EVET|%29|3|HAYIR|%28|EVET|%40|2|EVET|%28|EVET|%34|2|EVET|%14|EVET|%35|2|E
VET|%42|EVET|%36|1|HAYIR|%28|EVET|%31|2|EVET|%28|EVET|%30|4|HAYIR|%42|EVET|%25|2|EVET|%28|EVET|%29|2|EVET|%14|EVET|%39|1|HAYIR|%42|EVET|%27|2
|EVET|%28|EVET|%28
818|2026-08-17 19:03:22|2|2/3|HAYIR|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%43|T•B|EVET|%66|%51|TEPE_YON|FRAGMENTARY_2|DONGU
_TERS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%56|2|HAYIR|%62|EVET|%43|2|HAYIR|%37|EVET|%43|4|HAYIR|%25|EVET|%35|2|HAYIR|%37|EVET|%37|3|HAYIR
|%25|EVET|%42|3|HAYIR|%50|EVET|%40|3|HAYIR|%25|EVET|%33|2|HAYIR|%37|EVET|%40|2|HAYIR|%37|EVET|%25|2|HAYIR|%37|EVET|%33|3|HAYIR|%25|EVET|%40|1
|EVET|%37|EVET|%27|2|HAYIR|%37|EVET|%29
819|2026-08-17 19:03:23|1|1/3|HAYIR|%46|%22|EVET|%24|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%34|C•B|EVET|%66|%53|TEPE_YON|FRAGMENTARY_2|TEPE>T
EPE>TEPE|PATTERN_BREAK:0,59|EVET|%52|1|HAYIR|%55|EVET|%34|1|HAYIR|%33|EVET|%28|1|HAYIR|%22|EVET|%35|2|HAYIR|%33|EVET|%35|3|EVET|%22|EVET|%36|
3|EVET|%44|EVET|%47|2|HAYIR|%22|EVET|%29|2|HAYIR|%33|EVET|%34|1|HAYIR|%33|EVET|%28|3|EVET|%33|EVET|%28|1|HAYIR|%22|EVET|%39|1|HAYIR|%44|EVET|
%27|1|HAYIR|%33|EVET|%36
```

[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 821 ve sonrası)

```
821 820|2026-08-17 19:03:25|3|2/3|HAYIR|%46|%22|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%35|C•B|HAYIR|%66|%53|TEPE_YON|FRAGMENTARY_2|BLOK
↳ _TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%50|EVET|%35|2|HAYIR|%30|EVET|%43|2|HAYIR|%20|EVET|%38|2|HAYIR|%30|EVET|%30|2|HAYIR|%30|E
↳ VET|%39|2|HAYIR|%50|EVET|%52|2|HAYIR|%20|EVET|%32|2|HAYIR|%30|EVET|%37|2|HAYIR|%30|EVET|%29|2|HAYIR|%40|EVET|%37|3|HAYIR|%20|EVET|%40|1|EVET|
↳ %40|EVET|%27|3|HAYIR|%30|EVET|%28
822 821|2026-08-17 19:03:27|1|2/1|HAYIR|%46|%22|HAYIR|%23|%24|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%30|T•K|EVET|%66|%53|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|BLOK_DUZ>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%21|2|HAYIR|%45|EVET|%30|1|HAYIR|%27|EVET|%33|4|HAYIR|%18|EVET|%38|3|EVE
↳ T|%27|EVET|%32|3|EVET|%27|EVET|%29|3|EVET|%45|EVET|%34|3|EVET|%18|EVET|%28|1|HAYIR|%27|EVET|%34|1|HAYIR|%27|EVET|%27|2|HAYIR|%36|EVET|%27|3|E
↳ VET|%18|EVET|%39|1|HAYIR|%45|EVET|%27|2|HAYIR|%27|EVET|%31
823 822|2026-08-17 19:03:34|3|3/4|EVET|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%41|C•B|EVET|%66|%53|DONGU_TERS_YON|FRAGMENTARY_2|T
↳ EPE>BLOK_DUZ>DONGU_TERS|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%36|3|EVET|%41|EVET|%41|2|HAYIR|%25|EVET|%42|3|EVET|%16|EVET|%39|4|HAYIR|%3
↳ 3|EVET|%27|2|HAYIR|%33|EVET|%28|4|HAYIR|%50|EVET|%40|2|HAYIR|%25|EVET|%32|2|HAYIR|%25|EVET|%34|2|HAYIR|%25|EVET|%29|3|EVET|%33|EVET|%29|4|HAY
↳ IR|%25|EVET|%45|1|HAYIR|%41|EVET|%27|3|EVET|%25|EVET|%28
824 823|2026-08-17 19:04:05|3|1/2|EVET|%46|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%42|T•K|EVET|%66|%57|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%46|EVET|%42|1|EVET|%23|EVET|%29|2|HAYIR|%23|EVET|%40|2|HAYIR|%30|EVET|%36|1|EVET|%30|EVET|%44|1
↳ |EVET|%46|EVET|%46|1|EVET|%23|EVET|%33|1|EVET|%23|EVET|%37|2|HAYIR|%23|EVET|%29|1|EVET|%38|EVET|%34|2|HAYIR|%23|EVET|%62|2|HAYIR|%38|EVET|%28
↳ |2|HAYIR|%30|EVET|%33
825 824|2026-08-17 19:05:26|1|1|HAYIR|%46|%22|HAYIR|%23|%65|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%30|T•B|EVET|%66|%53|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>TEPE>VADI||HAYIR|%71|1|HAYIR|%42|EVET|%30|2|HAYIR|%28|EVET|%35|1|HAYIR|%21|EVET|%36|2|HAYIR|%28|EVET|%27|1|HAYIR|%35|EVET|%45|1|HAYIR|%50|
↳ EVET|%54|3|HAYIR|%28|EVET|%30|3|HAYIR|%28|EVET|%32|1|HAYIR|%21|EVET|%27|1|HAYIR|%42|EVET|%32|2|HAYIR|%21|EVET|%55|2|HAYIR|%35|EVET|%28|2|HAYI
↳ R|%28|EVET|%31
826 825|2026-08-17 19:06:47|4|3/4|HAYIR|%46|%22|HAYIR|%23|%45|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%33|C•B|HAYIR|%66|%54|VADI_YON|FRAGMENTARY_2|DALG
↳ A_TEK_SIM_1>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%65|3|HAYIR|%40|EVET|%33|1|EVET|%26|EVET|%32|3|HAYIR|%20|EVET|%42|4|HAYIR|%26|EVET|%32|3|HAYIR|
↳ %33|EVET|%31|3|HAYIR|%46|EVET|%51|3|HAYIR|%26|EVET|%31|3|HAYIR|%26|EVET|%31|3|HAYIR|%20|EVET|%28|3|HAYIR|%40|EVET|%33|3|HAYIR|%20|EVET|%49|2|
↳ HAYIR|%33|EVET|%28|3|HAYIR|%26|EVET|%29
827 826|2026-08-17 19:08:09|1|3/4|EVET|%46|%23|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%35|T•B|EVET|%66|%51|TEPE_YON|FRAGMENTARY_2|BLOK_DU
↳ Z>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%30|3|EVET|%37|EVET|%35|2|HAYIR|%31|EVET|%35|3|EVET|%18|EVET|%60|3|EVET|%25|EVET|%32|4|HAYIR|%31|EVET|%38
↳ |4|HAYIR|%43|EVET|%39|3|EVET|%25|EVET|%29|1|HAYIR|%25|EVET|%28|1|HAYIR|%18|EVET|%27|3|EVET|%37|EVET|%31|3|EVET|%18|EVET|%43|2|HAYIR|%31|EVET|
↳ %28|4|HAYIR|%25|EVET|%29
828 827|2026-08-17 19:09:32|3|3/1|EVET|%46|%23|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%39|T•K|EVET|%66|%56|VADI_YON|FRAGMENTARY_2|BLOK_DU
↳ Z>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%52|3|EVET|%41|EVET|%39|1|HAYIR|%29|EVET|%34|3|EVET|%23|EVET|%35|2|HAYIR|%29|EVET|%30|3|EVET|%29|EVET|%32
↳ |3|EVET|%41|EVET|%37|2|HAYIR|%29|EVET|%31|1|HAYIR|%23|EVET|%30|2|HAYIR|%17|EVET|%29|3|EVET|%41|EVET|%29|1|HAYIR|%23|EVET|%31|2|HAYIR|%29|EVET
↳ |%28|3|EVET|%23|EVET|%29
829 828|2026-08-17 19:10:48|3|1/2|HAYIR|%46|%23|HAYIR|%23|%49|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%50|T•K|HAYIR|%66|%59|BLOK_DUZ_TEKRAR|FRAGMENTARY
↳ _2|TEKRAR>TEPE>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%61|1|HAYIR|%44|EVET|%50|2|HAYIR|%27|EVET|%32|1|HAYIR|%27|EVET|%46|2|HAYIR|%27|EVET|%29|1|HAYI
↳ R|%33|EVET|%45|1|HAYIR|%44|EVET|%70|1|HAYIR|%27|EVET|%35|1|HAYIR|%22|EVET|%31|2|HAYIR|%16|EVET|%28|1|HAYIR|%44|EVET|%40|2|HAYIR|%22|EVET|%54|
↳ 2|HAYIR|%27|EVET|%28|2|HAYIR|%27|EVET|%32
830 829|2026-08-17 19:12:08|4|3/2|HAYIR|%46|%23|EVET|%23|%34|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%47|T•B|HAYIR|%66|%51|VADI_YON|FRAGMENTARY_2|TEKRA
↳ R>BLOK_TERS>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%51|3|HAYIR|%42|EVET|%47|1|HAYIR|%26|EVET|%43|2|EVET|%26|EVET|%38|1|HAYIR|%26|EVET
↳ |%29|3|HAYIR|%31|EVET|%44|3|HAYIR|%42|EVET|%53|3|HAYIR|%26|EVET|%30|2|EVET|%21|EVET|%29|3|HAYIR|%15|EVET|%28|3|HAYIR|%42|EVET|%35|2|EVET|%21|
↳ EVET|%40|1|HAYIR|%26|EVET|%27|3|HAYIR|%26|EVET|%33
831 830|2026-08-17 19:13:35|2|3|HAYIR|%46|%23|HAYIR|%23|%66|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%42|T•B|EVET|%66|%53|VADI_YON|FRAGMENTARY_2|BLOK_DU
↳ Z>DONGU_TERS>VADI||HAYIR|%73|3|HAYIR|%40|EVET|%42|2|HAYIR|%25|EVET|%35|3|HAYIR|%30|EVET|%51|2|HAYIR|%25|EVET|%32|2|HAYIR|%30|EVET|%29|3|HAYIR
↳ |%40|EVET|%36|4|EVET|%25|EVET|%29|3|HAYIR|%25|EVET|%32|2|HAYIR|%15|EVET|%25|3|HAYIR|%40|EVET|%32|3|HAYIR|%25|EVET|%54|2|HAYIR|%25|EVET|%28|3|
↳ HAYIR|%25|EVET|%28
832 831|2026-08-17 19:15:12|4|4/3|HAYIR|%46|%23|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|C•B|HAYIR|%66|%52|TEPE_YON|FRAGMENTARY_2|TEPE
↳ >VADI>TEPE|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%38|EVET|%31|1|EVET|%23|EVET|%29|4|HAYIR|%28|EVET|%56|3|HAYIR|%23|EVET|%30|3|HAYIR|%28|EVET|%4
↳ 4|4|HAYIR|%38|EVET|%35|3|HAYIR|%28|EVET|%30|3|HAYIR|%23|EVET|%29|3|HAYIR|%14|EVET|%28|4|HAYIR|%38|EVET|%28|4|HAYIR|%23|EVET|%39|2|HAYIR|%23|E
↳ VET|%28|3|HAYIR|%23|EVET|%27
833 832|2026-08-17 19:16:29|1|1/2|HAYIR|%46|%22|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%30|T•B|EVET|%66|%52|VADI_YON|FRAGMENTARY_2|TEPE>
↳ VADI>VADI|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%36|EVET|%30|2|HAYIR|%27|EVET|%34|1|HAYIR|%27|EVET|%38|3|EVET|%22|EVET|%27|1|HAYIR|%27|EVET|%32
↳ |4|HAYIR|%36|EVET|%37|3|EVET|%27|EVET|%30|3|EVET|%22|EVET|%31|1|HAYIR|%13|EVET|%27|1|HAYIR|%36|EVET|%27|1|HAYIR|%22|EVET|%34|2|HAYIR|%22|EVET
↳ |%28|4|HAYIR|%22|EVET|%28
834 833|2026-08-17 19:17:47|3|3/1|HAYIR|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%40|C•K|EVET|%66|%51|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>VADI>TEPE||HAYIR|%57|3|HAYIR|%34|EVET|%40|1|HAYIR|%26|EVET|%32|3|HAYIR|%26|EVET|%39|2|EVET|%26|EVET|%32|4|HAYIR|%26|EVET|%39|3|HAYIR|%34
↳ |EVET|%29|2|EVET|%30|EVET|%31|1|HAYIR|%26|EVET|%31|2|EVET|%13|EVET|%28|3|HAYIR|%34|EVET|%27|3|HAYIR|%21|EVET|%38|2|EVET|%21|EVET|%28|3|HAYIR|
↳ %21|EVET|%30
835 834|2026-08-17 19:19:04|2|1/4|HAYIR|%46|%22|EVET|%23|%26|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%34|C•B|EVET|%66|%53|TEPE_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%30|4|EVET|%33|EVET|%34|2|HAYIR|%25|EVET|%33|4|EVET|%25|EVET|%43|2|HAYIR|%29|EVET|%37|1|HAYIR|%25|EVET|%
↳ 28|1|HAYIR|%33|EVET|%36|4|EVET|%33|EVET|%30|3|HAYIR|%25|EVET|%30|4|EVET|%16|EVET|%25|1|HAYIR|%33|EVET|%28|1|HAYIR|%20|EVET|%53|2|HAYIR|%25|EV
↳ ET|%28|4|EVET|%20|EVET|%28
836 835|2026-08-17 19:20:30|4|3/2|HAYIR|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%36|T•K|EVET|%66|%54|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%61|3|HAYIR|%36|EVET|%36|1|EVET|%24|EVET|%31|3|HAYIR|%28|EVET|%44|3|HAYIR|%28|EVET|%26|3|HAYIR|%24|EVE
↳ T|%44|3|HAYIR|%32|EVET|%70|3|HAYIR|%36|EVET|%29|1|EVET|%24|EVET|%30|3|HAYIR|%20|EVET|%28|3|HAYIR|%32|EVET|%34|1|EVET|%20|EVET|%40|2|HAYIR|%24
↳ |EVET|%28|1|EVET|%24|EVET|%27
837 836|2026-08-17 19:21:50|1|2/3|HAYIR|%46|%22|HAYIR|%23|%44|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%31|T•B|EVET|%66|%52|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>BLOK_DUZ>DONGU_TERS||HAYIR|%56|3|HAYIR|%34|EVET|%31|2|HAYIR|%26|EVET|%41|2|HAYIR|%26|EVET|%40|3|HAYIR|%26|EVET|%25|2|HAYIR|%23|EVET|%31
↳ |4|HAYIR|%30|EVET|%30|3|HAYIR|%34|EVET|%31|3|HAYIR|%26|EVET|%34|1|EVET|%19|EVET|%27|2|HAYIR|%30|EVET|%28|1|EVET|%23|EVET|%32|1|EVET|%23|EVET|
↳ %27|4|HAYIR|%26|EVET|%28
838 837|2026-08-17 19:23:16|1|3/1|HAYIR|%46|%22|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%0|T•K|EVET|%67|%0|TEPE_YON|FRAGMENTARY_2|DONGU>VA
↳ DI>TEPE|PATTERN_BREAK:0,59|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|
↳ EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0
839 838|2026-09-11 18:49:57|2|4/2|EVET|%46|%22|HAYIR|%23|%54|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%34|C•K|EVET|%67|%52|VADI_YON|FRAGMENTARY_2|DONGU>V
↳ ADI>VADI||HAYIR|%68|4|EVET|%0|EVET|%34|2|HAYIR|%0|EVET|%33|4|EVET|%0|EVET|%42|1|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%43|3|HAYIR|%0|EVET|%43|4|E
↳ VET|%0|EVET|%31|4|EVET|%0|EVET|%39|4|EVET|%0|EVET|%26|3|HAYIR|%0|EVET|%28|4|EVET|%0|EVET|%80|2|HAYIR|%0|EVET|%30|4|EVET|%0|EVET|%34
840 839|2026-09-11 18:49:59|4|3/2|HAYIR|%46|%22|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%26|%27|T•K|EVET|%67|%53|DONGU_YON|FRAGMENTARY_2|VADI>T
↳ EPE>DONGU|PATTERN_BREAK:0,59|EVET|%39|2|EVET|%0|EVET|%27|1|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%35|3|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%30|3|HA
↳ YIR|%0|EVET|%34|3|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%43|3|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%30|2|EVET|%0|EVET|%52|2|EVET|%0|EVET|%29|1|HAYIR
↳ |%0|EVET|%27
841 840|2026-09-11 18:50:00|2|3/1|EVET|%46|%23|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%37|C•K|HAYIR|%67|%52|DONGU_YON|FRAGMENTARY_2|DALGA
↳ _TEK_SIM_2>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%48|3|EVET|%0|EVET|%37|2|HAYIR|%0|EVET|%33|3|EVET|%0|EVET|%31|2|HAYIR|%0|EVET|%30|3|EVET|%0|EVE
↳ T|%43|3|EVET|%0|EVET|%44|4|HAYIR|%0|EVET|%31|3|EVET|%0|EVET|%37|4|HAYIR|%0|EVET|%26|3|EVET|%0|EVET|%32|1|HAYIR|%0|EVET|%52|2|HAYIR|%0|EVET|%2
↳ 9|3|EVET|%0|EVET|%28
842 841|2026-09-11 18:50:03|3|2/1|HAYIR|%46|%22|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%30|T•K|HAYIR|%66|%52|TEPE_YON|FRAGMENTARY_2|VADI>
↳ TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%39|4|EVET|%0|EVET|%30|1|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%31|4|EVET|%0|EVET|%39|4|EVE
↳ T|%0|EVET|%53|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%34|2|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%53|1|HAYIR|%0|EVET|%27|1|HAYIR
↳ |%0|EVET|%30
843 842|2026-09-11 18:50:04|4|2/4|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%35|C•K|HAYIR|%66|%57|VADI_YON|FRAGMENTARY_2|DONG
↳ U>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%80|EVET|%35|2|HAYIR|%0|EVET|%31|4|HAYIR|%40|EVET|%49|2|HAYIR|%0|EVET|%42|4|HAYIR|%40|EVET|%4
↳ 0|4|HAYIR|%40|EVET|%72|2|HAYIR|%20|EVET|%30|2|HAYIR|%40|EVET|%28|3|EVET|%20|EVET|%28|4|HAYIR|%20|EVET|%33|2|HAYIR|%40|EVET|%77|2|HAYIR|%20|EV
↳ ET|%29|3|EVET|%40|EVET|%32
844 843|2026-09-11 18:50:05|3|2/1|HAYIR|%46|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%32|T•B|EVET|%66|%53|DONGU_YON|FRAGMENTARY_2|DONGU
↳ _TERS>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%66|EVET|%32|1|EVET|%0|EVET|%30|3|HAYIR|%33|EVET|%33|2|HAYIR|%0|EVET|%40|3|HAYIR|%33|EVE
↳ T|%31|3|HAYIR|%33|EVET|%29|2|HAYIR|%16|EVET|%31|1|EVET|%33|EVET|%38|2|HAYIR|%33|EVET|%28|2|HAYIR|%16|EVET|%27|3|HAYIR|%33|EVET|%39|2|HAYIR|%1
↳ 6|EVET|%29|2|HAYIR|%50|EVET|%31
845 844|2026-09-11 18:50:07|1|3/4|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%25|T•B|HAYIR|%66|%54|TEPE_YON|FRAGMENTARY_2|VADI
↳ >DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%32|1|HAYIR|%57|EVET|%25|2|EVET|%14|EVET|%32|3|HAYIR|%28|EVET|%33|3|HAYIR|%0|EVET|%46|1|HAYIR|%28|EV
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[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 845 ve sonrası)

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↳ ET|%45|1|HAYIR|%28|EVET|%39|3|HAYIR|%14|EVET|%31|3|HAYIR|%42|EVET|%37|1|HAYIR|%28|EVET|%27|1|HAYIR|%14|EVET|%28|3|HAYIR|%28|EVET|%74|1|HAYIR|
↳ %14|EVET|%27|2|EVET|%42|EVET|%30
846 845|2026-09-11 18:50:09|2|4/2|HAYIR|%46|%22|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%39|C•K|EVET|%66|%54|TEPE_YON|WEAK_PERIODIC_3|BLO
↳ K_DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%68|4|HAYIR|%50|EVET|%39|1|EVET|%25|EVET|%32|1|EVET|%25|EVET|%30|1|EVET|%0|EVET|%32|3|HAYIR|%25|EVET|
↳ %31|4|HAYIR|%25|EVET|%27|4|HAYIR|%12|EVET|%31|4|HAYIR|%37|EVET|%29|4|HAYIR|%25|EVET|%26|1|EVET|%12|EVET|%26|4|HAYIR|%25|EVET|%50|1|EVET|%12|E
↳ VET|%27|4|HAYIR|%50|EVET|%35
847 846|2026-09-11 18:50:10|1|2/3|HAYIR|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%36|T•K|EVET|%66|%50|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>VADI>DONGU_TERS||HAYIR|%51|1|EVET|%44|EVET|%36|2|HAYIR|%33|EVET|%32|3|HAYIR|%33|EVET|%42|4|HAYIR|%11|EVET|%40|3|HAYIR|%22|EVET|%43|3|HAY
↳ IR|%22|EVET|%41|3|HAYIR|%11|EVET|%30|3|HAYIR|%33|EVET|%27|1|EVET|%22|EVET|%27|3|HAYIR|%22|EVET|%32|1|EVET|%22|EVET|%73|1|EVET|%22|EVET|%27|1|
↳ EVET|%44|EVET|%35
848 847|2026-09-11 18:50:12|1|1/3|HAYIR|%46|%22|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%36|T•B|EVET|%66|%55|TEPE_YON|WEAK_PERIODIC_3|DON
↳ GU_TERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%41|1|HAYIR|%50|EVET|%36|1|HAYIR|%30|EVET|%30|1|HAYIR|%30|EVET|%49|4|EVET|%10|EVET|%28|1|HAYIR|%20
↳ |EVET|%46|1|HAYIR|%20|EVET|%57|2|HAYIR|%10|EVET|%30|1|HAYIR|%30|EVET|%33|1|HAYIR|%30|EVET|%27|1|HAYIR|%20|EVET|%33|3|HAYIR|%30|EVET|%32|1|HAY
↳ IR|%30|EVET|%27|3|HAYIR|%50|EVET|%30
849 848|2026-09-11 18:50:15|4|3/2|HAYIR|%46|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%32|C•K|EVET|%66|%52|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU_TERS>DONGU>DONGU_TERS|PATTERN_BREAK:0,61|EVET|%54|1|EVET|%45|EVET|%32|2|HAYIR|%27|EVET|%32|3|HAYIR|%27|EVET|%35|3|HAYIR|%18|EVET|%32|1|
↳ EVET|%18|EVET|%46|1|EVET|%18|EVET|%39|3|HAYIR|%9|EVET|%29|3|HAYIR|%27|EVET|%29|3|HAYIR|%27|EVET|%28|1|EVET|%18|EVET|%29|2|HAYIR|%27|EVET|%64|
↳ 1|EVET|%27|EVET|%27|3|HAYIR|%45|EVET|%28
850 849|2026-09-11 18:50:17|1|3/2|HAYIR|%46|%22|EVET|%23|%47|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%51|T•K|EVET|%67|%52|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU_TERS>TEPE>DONGU_TERS||HAYIR|%54|3|HAYIR|%50|EVET|%51|1|HAYIR|%25|EVET|%32|3|HAYIR|%25|EVET|%84|3|HAYIR|%16|EVET|%38|3|HAYIR|%25|EVET|%4
↳ 2|3|HAYIR|%25|EVET|%74|3|HAYIR|%8|EVET|%30|3|HAYIR|%25|EVET|%38|1|HAYIR|%25|EVET|%27|3|HAYIR|%25|EVET|%45|3|HAYIR|%25|EVET|%93|1|HAYIR|%33|EV
↳ ET|%27|1|HAYIR|%41|EVET|%28
851 850|2026-09-11 18:50:19|2|4/3|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%39|C•K|EVET|%67|%54|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%46|EVET|%39|2|HAYIR|%23|EVET|%31|4|HAYIR|%23|EVET|%57|1|EVET|%15|EVET|%40|4|HAYIR|
↳ %23|EVET|%31|4|HAYIR|%23|EVET|%52|4|HAYIR|%7|EVET|%30|2|HAYIR|%23|EVET|%47|4|HAYIR|%23|EVET|%26|4|HAYIR|%23|EVET|%32|4|HAYIR|%23|EVET|%98|2|H
↳ AYIR|%30|EVET|%28|4|HAYIR|%38|EVET|%34
852 851|2026-09-11 18:50:21|1|1/4|HAYIR|%46|%22|EVET|%23|%59|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%37|T•B|EVET|%67|%53|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU>DONGU>DONGU_TERS||HAYIR|%76|1|HAYIR|%42|EVET|%37|1|HAYIR|%21|EVET|%30|1|HAYIR|%21|EVET|%32|1|HAYIR|%21|EVET|%34|4|EVET|%21|EVET|%39|4|E
↳ VET|%21|EVET|%58|3|HAYIR|%7|EVET|%30|1|HAYIR|%21|EVET|%39|1|HAYIR|%21|EVET|%27|4|EVET|%21|EVET|%30|1|HAYIR|%21|EVET|%79|2|HAYIR|%28|EVET|%28|
↳ 1|HAYIR|%35|EVET|%36
853 852|2026-09-11 18:50:23|4|3/2|EVET|%46|%22|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%44|T•K|EVET|%67|%57|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%35|1|HAYIR|%40|EVET|%44|2|HAYIR|%20|EVET|%31|1|HAYIR|%20|EVET|%73|3|EVET|%20|EVET|%31|1|HAYIR|%26|EVET|%46|
↳ 1|HAYIR|%26|EVET|%67|2|HAYIR|%6|EVET|%29|1|HAYIR|%20|EVET|%32|3|EVET|%20|EVET|%28|1|HAYIR|%26|EVET|%41|1|HAYIR|%20|EVET|%65|2|HAYIR|%26|EVET|
↳ %28|3|EVET|%33|EVET|%28
854 853|2026-09-11 18:50:25|3|1/2|EVET|%46|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%32|C•K|EVET|%67|%55|TEPE_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>TEPE|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%37|EVET|%32|1|EVET|%18|EVET|%31|3|HAYIR|%18|EVET|%31|3|HAYIR|%25|EVET|%39|3|HAYIR|%25|EVET|%43|
↳ 3|HAYIR|%25|EVET|%46|2|HAYIR|%6|EVET|%31|1|EVET|%18|EVET|%39|2|HAYIR|%25|EVET|%28|3|HAYIR|%25|EVET|%31|2|HAYIR|%18|EVET|%72|2|HAYIR|%25|EVET|
↳ %28|2|HAYIR|%37|EVET|%30
855 854|2026-09-11 18:50:26|1|2/4|HAYIR|%46|%22|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%29|T•B|EVET|%67|%50|TEPE_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>TEPE||HAYIR|%65|2|HAYIR|%35|EVET|%29|2|HAYIR|%23|EVET|%39|3|EVET|%17|EVET|%41|3|EVET|%23|EVET|%44|4|HAYIR|%23|EVET|%31|4|HAYIR|%23
↳ |EVET|%41|3|EVET|%5|EVET|%29|3|EVET|%23|EVET|%36|1|HAYIR|%23|EVET|%27|3|EVET|%23|EVET|%32|3|EVET|%17|EVET|%71|1|HAYIR|%23|EVET|%27|2|HAYIR|%3
↳ 5|EVET|%31
856 855|2026-09-11 18:50:28|3|1/3|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%40|T•B|EVET|%67|%53|VADI_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%33|EVET|%40|1|HAYIR|%22|EVET|%35|3|HAYIR|%22|EVET|%39|3|HAYIR|%27|EVET|%33|1|HAYIR|%22|EVE
↳ T|%47|1|HAYIR|%22|EVET|%47|1|HAYIR|%11|EVET|%31|1|HAYIR|%27|EVET|%42|2|HAYIR|%22|EVET|%28|1|HAYIR|%27|EVET|%34|3|HAYIR|%22|EVET|%90|2|HAYIR|%
↳ 22|EVET|%28|3|HAYIR|%33|EVET|%29
857 856|2026-09-11 18:50:30|4|2/3|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%46|T•B|EVET|%67|%51|VADI_YON|FRAGMENTARY_2|DONGU
↳ _TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%39|3|HAYIR|%31|EVET|%46|2|HAYIR|%21|EVET|%29|3|HAYIR|%21|EVET|%49|1|HAYIR|%26|EVET|%32|1|HAYIR
↳ |%21|EVET|%46|3|HAYIR|%21|EVET|%43|3|HAYIR|%10|EVET|%30|1|HAYIR|%26|EVET|%35|3|HAYIR|%21|EVET|%28|3|HAYIR|%26|EVET|%31|3|HAYIR|%21|EVET|%84|2
↳ |HAYIR|%21|EVET|%28|3|HAYIR|%31|EVET|%33
858 857|2026-09-11 18:50:31|4|1/3|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%40|C•K|EVET|%67|%52|VADI_YON|FRAGMENTARY_2|DONGU
↳ _TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%40|1|HAYIR|%30|EVET|%40|1|HAYIR|%20|EVET|%31|4|EVET|%20|EVET|%32|1|HAYIR|%25|EVET|%32|1|HAYIR|
↳ %20|EVET|%46|1|HAYIR|%20|EVET|%58|1|HAYIR|%10|EVET|%36|1|HAYIR|%25|EVET|%36|3|HAYIR|%20|EVET|%28|1|HAYIR|%25|EVET|%37|4|EVET|%20|EVET|%65|1|H
↳ AYIR|%20|EVET|%27|3|HAYIR|%30|EVET|%29
859 858|2026-09-11 18:50:32|4|3/2|HAYIR|%46|%22|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%32|T•K|EVET|%67|%52|TEPE_YON|FRAGMENTARY_2|VADI>D
↳ ONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%28|EVET|%32|2|EVET|%19|EVET|%30|4|HAYIR|%23|EVET|%31|1|HAYIR|%23|EVET|%30|3|HAYIR|%19|EVE
↳ T|%27|3|HAYIR|%19|EVET|%33|3|HAYIR|%9|EVET|%48|2|EVET|%23|EVET|%36|3|HAYIR|%19|EVET|%28|3|HAYIR|%23|EVET|%29|3|HAYIR|%23|EVET|%92|1|HAYIR|%19
↳ |EVET|%27|3|HAYIR|%28|EVET|%28
860 859|2026-09-11 18:50:34|2|3/4|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%40|T•B|HAYIR|%67|%60|VADI_YON|FRAGMENTARY_2|TEPE
↳ >DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%44|3|HAYIR|%27|EVET|%40|1|HAYIR|%22|EVET|%31|1|HAYIR|%22|EVET|%41|1|HAYIR|%22|EVET|%39|1|HAYIR|%18|
↳ EVET|%45|1|HAYIR|%18|EVET|%45|4|HAYIR|%9|EVET|%30|4|HAYIR|%27|EVET|%36|4|HAYIR|%18|EVET|%26|1|HAYIR|%22|EVET|%34|1|HAYIR|%22|EVET|%92|1|HAYIR
↳ |%18|EVET|%27|3|HAYIR|%27|EVET|%29
861 860|2026-09-11 18:50:36|2|2/3|HAYIR|%46|%22|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%35|T•K|HAYIR|%67|%54|VADI_YON|FRAGMENTARY_2|TEPE
↳ >VADI>VADI|PATTERN_BREAK:0,59|EVET|%42|2|HAYIR|%26|EVET|%35|2|HAYIR|%21|EVET|%30|3|HAYIR|%21|EVET|%38|1|HAYIR|%21|EVET|%31|1|HAYIR|%17|EVET|%
↳ 33|3|HAYIR|%17|EVET|%40|1|HAYIR|%8|EVET|%31|2|HAYIR|%26|EVET|%35|4|EVET|%17|EVET|%26|3|HAYIR|%21|EVET|%27|3|HAYIR|%21|EVET|%90|1|HAYIR|%17|EV
↳ ET|%27|2|HAYIR|%26|EVET|%28
862 861|2026-09-11 18:50:38|4|1/3|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%27|T•B|EVET|%67|%54|TEPE_YON|FRAGMENTARY_2|VADI>
↳ TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%44|1|HAYIR|%25|EVET|%27|1|HAYIR|%20|EVET|%31|1|HAYIR|%20|EVET|%33|3|HAYIR|%20|EVET|%44|3|HAYIR|%16|EVET|%4
↳ 2|3|HAYIR|%16|EVET|%36|3|HAYIR|%8|EVET|%29|1|HAYIR|%25|EVET|%35|3|HAYIR|%20|EVET|%28|3|HAYIR|%20|EVET|%29|3|HAYIR|%20|EVET|%57|1|HAYIR|%16|EV
↳ ET|%27|1|HAYIR|%25|EVET|%27
863 862|2026-09-11 18:50:40|4|2/3|HAYIR|%46|%22|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%49|T•K|HAYIR|%67|%55|TEPE_YON|FRAGMENTARY_2|DONG
↳ U_TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%24|EVET|%49|2|HAYIR|%20|EVET|%30|1|HAYIR|%20|EVET|%38|1|HAYIR|%20|EVET|%33|1|HAYIR|%16|
↳ EVET|%45|1|HAYIR|%16|EVET|%70|1|HAYIR|%8|EVET|%35|2|HAYIR|%24|EVET|%37|3|HAYIR|%20|EVET|%28|1|HAYIR|%20|EVET|%36|1|HAYIR|%20|EVET|%98|1|HAYIR
↳ |%16|EVET|%27|3|HAYIR|%24|EVET|%28
864 863|2026-09-11 18:50:40|4|1/2|HAYIR|%46|%22|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%34|C•B|EVET|%67|%51|VADI_YON|FRAGMENTARY_2|TEPE>
↳ VADI>VADI|PATTERN_BREAK:0,59|EVET|%31|1|HAYIR|%23|EVET|%34|1|HAYIR|%19|EVET|%30|3|HAYIR|%19|EVET|%32|1|HAYIR|%19|EVET|%26|2|HAYIR|%15|EVET|%2
↳ 7|2|HAYIR|%15|EVET|%27|2|HAYIR|%7|EVET|%38|2|HAYIR|%23|EVET|%34|3|HAYIR|%19|EVET|%28|2|HAYIR|%19|EVET|%28|3|HAYIR|%19|EVET|%91|2|HAYIR|%15|EV
↳ ET|%28|3|HAYIR|%23|EVET|%27
865 864|2026-09-11 18:50:41|4|2/3|HAYIR|%46|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%35|C•K|HAYIR|%67|%52|VADI_YON|FRAGMENTARY_2|DONGU
↳ _TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%46|1|HAYIR|%22|EVET|%35|2|HAYIR|%18|EVET|%28|2|HAYIR|%18|EVET|%29|2|HAYIR|%18|EVET|%27|1|HAYIR|%14|E
↳ VET|%32|2|HAYIR|%14|EVET|%33|2|HAYIR|%7|EVET|%34|4|HAYIR|%22|EVET|%32|3|EVET|%18|EVET|%27|2|HAYIR|%18|EVET|%29|2|HAYIR|%18|EVET|%59|2|HAYIR|%
↳ 14|EVET|%28|3|EVET|%22|EVET|%27
866 865|2026-09-11 18:50:44|3|1/2|HAYIR|%46|%22|EVET|%23|%31|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%32|T•K|EVET|%67|%52|VADI_YON|FRAGMENTARY_2|TEPE>VA
↳ DI>VADI|PATTERN_BREAK:0,59|EVET|%44|2|EVET|%21|EVET|%32|1|HAYIR|%17|EVET|%30|1|HAYIR|%17|EVET|%44|2|EVET|%17|EVET|%34|4|HAYIR|%14|EVET|%35|4|
↳ HAYIR|%14|EVET|%30|1|HAYIR|%7|EVET|%31|1|HAYIR|%21|EVET|%33|2|EVET|%21|EVET|%28|1|HAYIR|%17|EVET|%28|3|HAYIR|%17|EVET|%53|2|EVET|%14|EVET|%28
↳ |2|EVET|%25|EVET|%30
867 866|2026-09-11 18:50:45|2|2/4|EVET|%46|%22|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%35|C•K|EVET|%67|%58|TEPE_YON|FRAGMENTARY_2|TEPE>TE
↳ PE>TEPE|PATTERN_BREAK:0,59|EVET|%42|2|EVET|%24|EVET|%35|2|EVET|%17|EVET|%30|2|EVET|%17|EVET|%58|2|EVET|%20|EVET|%28|2|EVET|%13|EVET|%28|2|EVE
↳ T|%13|EVET|%36|4|HAYIR|%6|EVET|%30|4|HAYIR|%20|EVET|%33|4|HAYIR|%24|EVET|%26|2|EVET|%17|EVET|%32|2|EVET|%17|EVET|%71|2|EVET|%17|EVET|%28|4|HA
↳ YIR|%27|EVET|%29
868 867|2026-09-11 18:50:46|2|1/2|HAYIR|%46|%22|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%37|C•K|EVET|%67|%53|TEPE_YON|FRAGMENTARY_2|VADI>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%39|2|HAYIR|%26|EVET|%37|1|HAYIR|%20|EVET|%29|2|HAYIR|%20|EVET|%28|2|HAYIR|%23|EVET|%35|1|HAYIR|%16|EVET|%4
↳ 3|1|HAYIR|%16|EVET|%52|1|HAYIR|%6|EVET|%29|4|EVET|%20|EVET|%32|4|EVET|%23|EVET|%26|1|HAYIR|%20|EVET|%32|2|HAYIR|%20|EVET|%58|2|HAYIR|%20|EVET
↳ |%27|2|HAYIR|%26|EVET|%28
869 868|2026-09-11 18:50:48|4|3/2|HAYIR|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%31|T•B|EVET|%67|%53|VADI_YON|FRAGMENTARY_2|ARTIS>
↳ VADI>VADI||HAYIR|%41|1|EVET|%25|EVET|%31|2|HAYIR|%19|EVET|%29|1|EVET|%19|EVET|%37|3|HAYIR|%22|EVET|%36|1|EVET|%16|EVET|%43|1|EVET|%16|EVET|%4
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[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 869 ve sonrası)

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↳ 3|3|HAYIR|%6|EVET|%29|4|HAYIR|%22|EVET|%35|3|HAYIR|%25|EVET|%28|1|EVET|%19|EVET|%29|3|HAYIR|%19|EVET|%54|2|HAYIR|%19|EVET|%27|1|EVET|%25|EVET
↳ |%26
870 869|2026-09-11 18:50:49|1|1/4|HAYIR|%46|%22|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%30|T•B|EVET|%67|%52|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|TEPE>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%28|EVET|%30|1|HAYIR|%18|EVET|%33|1|HAYIR|%21|EVET|%40|3|EVET|%2
↳ 1|EVET|%33|4|HAYIR|%18|EVET|%44|4|HAYIR|%18|EVET|%41|3|EVET|%6|EVET|%30|1|HAYIR|%21|EVET|%30|1|HAYIR|%25|EVET|%27|4|HAYIR|%21|EVET|%29|1|HAYI
↳ R|%18|EVET|%51|1|HAYIR|%18|EVET|%27|1|HAYIR|%28|EVET|%28
871 870|2026-09-11 18:50:51|3|2/4|HAYIR|%46|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%37|T•K|HAYIR|%67|%51|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%58|3|HAYIR|%27|EVET|%37|2|HAYIR|%18|EVET|%30|2|HAYIR|%21|EVET|%46|2|HAYIR|%24|EVET|%28|2
↳ |HAYIR|%18|EVET|%32|2|HAYIR|%18|EVET|%36|2|HAYIR|%9|EVET|%30|2|HAYIR|%21|EVET|%30|2|HAYIR|%24|EVET|%28|2|HAYIR|%21|EVET|%31|3|HAYIR|%18|EVET|
↳ %41|1|HAYIR|%18|EVET|%27|3|HAYIR|%27|EVET|%29
872 871|2026-09-11 18:50:53|4|1/3|HAYIR|%46|%22|EVET|%23|%41|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%26|%44|C•K|HAYIR|%67|%54|VADI_YON|FRAGMENTARY_2|VADI>V
↳ ADI>VADI||HAYIR|%55|3|EVET|%26|EVET|%44|1|HAYIR|%17|EVET|%29|3|EVET|%20|EVET|%48|2|HAYIR|%23|EVET|%31|3|EVET|%17|EVET|%41|3|EVET|%17|EVET|%54
↳ |3|EVET|%8|EVET|%29|4|HAYIR|%20|EVET|%37|3|EVET|%23|EVET|%28|3|EVET|%20|EVET|%35|3|EVET|%17|EVET|%84|2|HAYIR|%17|EVET|%27|3|EVET|%26|EVET|%33
873 872|2026-09-11 18:50:54|3|2/1|HAYIR|%46|%22|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%32|T•K|EVET|%67|%52|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%28|EVET|%32|2|HAYIR|%17|EVET|%29|3|EVET|%22|EVET|%40|2|HAYIR|%22|EVET|%35|3|EVET|%
↳ 20|EVET|%42|3|EVET|%20|EVET|%42|2|HAYIR|%11|EVET|%30|2|HAYIR|%20|EVET|%30|2|HAYIR|%25|EVET|%28|3|EVET|%22|EVET|%30|3|EVET|%20|EVET|%39|1|HAYI
↳ R|%17|EVET|%28|2|HAYIR|%28|EVET|%31
874 873|2026-09-11 18:50:55|3|1/2|HAYIR|%46|%22|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%39|T•K|EVET|%67|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_DUZ>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%27|EVET|%39|1|HAYIR|%16|EVET|%30|3|EVET|%25|EVET|%38|2|HAYIR|%22|EVET|%42|1|HA
↳ YIR|%22|EVET|%43|1|HAYIR|%22|EVET|%61|1|HAYIR|%11|EVET|%33|1|HAYIR|%19|EVET|%28|2|HAYIR|%25|EVET|%28|1|HAYIR|%25|EVET|%35|1|HAYIR|%22|EVET|%7
↳ 1|1|HAYIR|%16|EVET|%28|2|HAYIR|%27|EVET|%32
875 874|2026-09-11 18:50:57|3|4/1|HAYIR|%46|%22|EVET|%23|%0|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%26|%0|C•K|EVET|%67|%0|DONGU_TERS_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%0|4|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|EVET|%0|EVET|%0|4
↳ |EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|HAYIR|%0|E
↳ VET|%0
876 875|2026-09-11 18:51:04|4|2|HAYIR|%46|%22|HAYIR|%23|%75|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%55|C•K|HAYIR|%67|%54|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>TEPE>VADI||HAYIR|%77|2|HAYIR|%0|EVET|%55|1|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%69|2|HAYIR|%0|EVET|%35|2|HAYIR|%0|EVET|%43|2|HAYIR|%0|EVET|
↳ %82|3|EVET|%0|EVET|%30|4|HAYIR|%0|EVET|%33|3|EVET|%0|EVET|%28|2|HAYIR|%0|EVET|%46|2|HAYIR|%0|EVET|%95|2|HAYIR|%0|EVET|%28|3|EVET|%0|EVET|%34
877 876|2026-09-11 18:51:04|3|3/2|HAYIR|%46|%22|EVET|%23|%43|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%26|%37|C•K|EVET|%67|%52|TEPE_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>VADI>TEPE||HAYIR|%64|2|EVET|%0|EVET|%37|2|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%35|3|HAYIR|%0|EVET|%36|2|EVET|%0|EVET|%43|2|EVET|%0|EVET|%50|2
↳ |EVET|%0|EVET|%29|3|HAYIR|%0|EVET|%39|2|EVET|%0|EVET|%28|2|EVET|%0|EVET|%33|3|HAYIR|%0|EVET|%47|2|EVET|%0|EVET|%28|2|EVET|%0|EVET|%30
878 877|2026-09-11 18:51:06|2|2/4|HAYIR|%46|%22|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%44|T•K|EVET|%67|%54|TEPE_YON|FRAGMENTARY_2|DALGA
↳ _TEK_SIM_2>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%51|2|HAYIR|%0|EVET|%44|1|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%61|1|HAYIR|%0|EVET|%30|2|HAYIR
↳ |%0|EVET|%43|2|HAYIR|%0|EVET|%54|4|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%26|2|HAYIR|%0|EVET|%39|2|HAYIR|%0|EVET|%75|2|HAYIR|
↳ %0|EVET|%28|4|HAYIR|%0|EVET|%29
879 878|2026-09-11 18:51:11|3|2/4|HAYIR|%46|%22|EVET|%24|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%33|T•K|HAYIR|%67|%52|VADI_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>VADI>VADI|PATTERN_BREAK:0,59|EVET|%47|1|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%32|2|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%43|
↳ 2|HAYIR|%0|EVET|%46|2|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%88|2|HAYIR|%0|EVET|%28|1
↳ |HAYIR|%0|EVET|%30
880 879|2026-09-11 18:51:12|4|3/2|HAYIR|%46|%22|EVET|%24|%48|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%45|T•K|EVET|%67|%54|DONGU_TERS_YON|FRAGMENTARY_2|
↳ BLOK_DUZ>VADI>DONGU_TERS||HAYIR|%51|3|HAYIR|%40|EVET|%45|1|HAYIR|%20|EVET|%29|2|EVET|%40|EVET|%35|2|EVET|%0|EVET|%46|4|HAYIR|%40|EVET|%32|3|H
↳ AYIR|%40|EVET|%39|3|HAYIR|%40|EVET|%31|4|HAYIR|%20|EVET|%32|3|HAYIR|%40|EVET|%28|3|HAYIR|%40|EVET|%31|2|EVET|%0|EVET|%71|2|EVET|%20|EVET|%28|
↳ 3|HAYIR|%40|EVET|%35
881 880|2026-09-11 18:51:14|2|3/4|HAYIR|%46|%22|HAYIR|%24|%48|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%42|T•B|EVET|%67|%52|TEPE_YON|FRAGMENTARY_2|TEKRA
↳ R>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%66|3|HAYIR|%33|EVET|%42|2|HAYIR|%16|EVET|%30|3|HAYIR|%50|EVET|%57|2|HAYIR|%16|EVET|%34|3|HAYIR|%33
↳ |EVET|%36|3|HAYIR|%33|EVET|%45|4|HAYIR|%33|EVET|%30|3|HAYIR|%16|EVET|%31|4|HAYIR|%33|EVET|%26|3|HAYIR|%33|EVET|%36|3|HAYIR|%16|EVET|%55|2|HAY
↳ IR|%33|EVET|%27|3|HAYIR|%33|EVET|%28
882 881|2026-09-11 18:51:15|1|1/2|HAYIR|%46|%22|HAYIR|%24|%32|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%40|T•K|EVET|%67|%55|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_TERS>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%48|1|HAYIR|%28|EVET|%40|1|HAYIR|%14|EVET|%30|2|HAYIR|%42|EVET|%41|2|HAYIR|%14|EVET|
↳ %31|1|HAYIR|%28|EVET|%42|1|HAYIR|%28|EVET|%48|3|EVET|%28|EVET|%31|2|HAYIR|%14|EVET|%28|1|HAYIR|%28|EVET|%27|1|HAYIR|%28|EVET|%33|2|HAYIR|%14|
↳ EVET|%71|1|HAYIR|%28|EVET|%28|1|HAYIR|%28|EVET|%35
883 882|2026-09-11 18:51:16|3|2/4|HAYIR|%46|%22|HAYIR|%24|%29|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%38|C•K|HAYIR|%67|%51|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_TERS>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%40|3|EVET|%25|EVET|%38|2|HAYIR|%12|EVET|%28|4|HAYIR|%37|EVET|%29|2|HAYIR|%12|EVET|%
↳ 35|3|EVET|%25|EVET|%28|3|EVET|%25|EVET|%35|2|HAYIR|%37|EVET|%30|3|EVET|%12|EVET|%38|2|HAYIR|%25|EVET|%28|3|EVET|%25|EVET|%27|3|EVET|%12|EVET|
↳ %60|2|HAYIR|%25|EVET|%27|3|EVET|%25|EVET|%28
884 883|2026-09-11 18:51:17|3|2/1|HAYIR|%46|%22|EVET|%24|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%36|C•K|EVET|%67|%51|DONGU_TERS_YON|FRAGMENTARY_2|
↳ BLOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%63|2|HAYIR|%33|EVET|%36|1|EVET|%11|EVET|%29|2|HAYIR|%33|EVET|%31|1|EVET|%11|EVET|%30|2|HAY
↳ IR|%33|EVET|%43|2|HAYIR|%33|EVET|%52|1|EVET|%33|EVET|%32|3|HAYIR|%22|EVET|%30|2|HAYIR|%22|EVET|%28|2|HAYIR|%33|EVET|%33|1|EVET|%22|EVET|%63|1
↳ |EVET|%22|EVET|%28|2|HAYIR|%33|EVET|%31
885 884|2026-09-11 18:51:20|1|4/2|HAYIR|%46|%22|EVET|%24|%39|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%34|C•B|EVET|%67|%53|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%30|EVET|%34|2|EVET|%20|EVET|%27|4|HAYIR|%30|EVET|%50|4|HAYIR|%20|EVET|%28|4|HAYIR|%
↳ 30|EVET|%33|4|HAYIR|%30|EVET|%43|3|HAYIR|%40|EVET|%32|3|HAYIR|%20|EVET|%43|1|HAYIR|%20|EVET|%27|4|HAYIR|%30|EVET|%30|4|HAYIR|%30|EVET|%64|1|H
↳ AYIR|%30|EVET|%28|2|EVET|%30|EVET|%31
886 885|2026-09-11 18:51:22|2|2/4|EVET|%46|%22|HAYIR|%24|%25|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%34|C•K|EVET|%67|%53|TEPE_YON|WEAK_PERIODIC_3|TEPE
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%33|4|HAYIR|%27|EVET|%34|1|HAYIR|%27|EVET|%29|1|HAYIR|%27|EVET|%36|3|HAYIR|%18|EVET|%31|2|EVET|%27|EVET|%4
↳ 3|2|EVET|%27|EVET|%43|4|HAYIR|%36|EVET|%29|4|HAYIR|%18|EVET|%32|4|HAYIR|%18|EVET|%26|2|EVET|%27|EVET|%28|4|HAYIR|%27|EVET|%47|1|HAYIR|%27|EVE
↳ T|%28|4|HAYIR|%36|EVET|%34
887 886|2026-09-11 18:51:23|2|1/2|HAYIR|%46|%22|HAYIR|%24|%33|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%32|T•K|HAYIR|%67|%53|VADI_YON|FRAGMENTARY_2|DONG
↳ U_TERS>VADI>VADI|PATTERN_BREAK:0,61|EVET|%48|2|HAYIR|%25|EVET|%32|3|HAYIR|%25|EVET|%28|1|HAYIR|%25|EVET|%31|2|HAYIR|%16|EVET|%31|1|HAYIR|%33|
↳ EVET|%42|1|HAYIR|%33|EVET|%58|4|EVET|%33|EVET|%28|4|EVET|%16|EVET|%36|4|EVET|%16|EVET|%26|1|HAYIR|%33|EVET|%31|2|HAYIR|%25|EVET|%75|1|HAYIR|%
↳ 25|EVET|%28|2|HAYIR|%33|EVET|%28
888 887|2026-09-11 18:51:25|4|4/1|EVET|%46|%22|HAYIR|%24|%43|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%32|T•K|HAYIR|%67|%53|VADI_YON|FRAGMENTARY_2|VADI>D
↳ ONGU_TERS>VADI||HAYIR|%53|4|EVET|%23|EVET|%32|1|HAYIR|%23|EVET|%27|4|EVET|%23|EVET|%45|3|HAYIR|%15|EVET|%36|4|EVET|%30|EVET|%43|4|EVET|%30|EV
↳ ET|%63|3|HAYIR|%38|EVET|%31|3|HAYIR|%23|EVET|%34|3|HAYIR|%23|EVET|%28|4|EVET|%30|EVET|%32|3|HAYIR|%23|EVET|%46|1|HAYIR|%23|EVET|%28|1|HAYIR|%
↳ 30|EVET|%27
889 888|2026-09-11 18:51:26|4|1/4|HAYIR|%46|%22|HAYIR|%24|%27|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%45|T•K|EVET|%67|%58|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%40|1|HAYIR|%28|EVET|%45|2|HAYIR|%21|EVET|%30|1|HAYIR|%28|EVET|%41|4|HAYIR|%14|EVET|%31|1|HAYIR|%35|EVET|%4
↳ 2|1|HAYIR|%35|EVET|%71|1|HAYIR|%35|EVET|%34|4|HAYIR|%21|EVET|%28|3|EVET|%21|EVET|%28|1|HAYIR|%35|EVET|%37|1|HAYIR|%21|EVET|%98|2|HAYIR|%21|EV
↳ ET|%27|3|EVET|%28|EVET|%28
890 889|2026-09-11 18:51:29|3|3/2|EVET|%46|%22|HAYIR|%24|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%38|C•B|EVET|%67|%50|TEPE_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU_TERS>TEPE||HAYIR|%56|2|HAYIR|%26|EVET|%38|1|HAYIR|%20|EVET|%27|3|EVET|%26|EVET|%31|3|EVET|%13|EVET|%32|3|EVET|%33|EVET|%45|3|EVET|%33|EV
↳ ET|%43|2|HAYIR|%33|EVET|%30|3|EVET|%20|EVET|%32|2|HAYIR|%26|EVET|%28|3|EVET|%33|EVET|%30|2|HAYIR|%20|EVET|%52|2|HAYIR|%20|EVET|%27|2|HAYIR|%3
↳ 3|EVET|%31
891 890|2026-09-11 18:51:53|3|2/3|HAYIR|%46|%22|HAYIR|%24|%32|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%26|%38|C•K|EVET|%67|%52|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%39|1|EVET|%25|EVET|%38|2|HAYIR|%18|EVET|%27|3|HAYIR|%31|EVET|%32|2|HAYIR|%18|EVET|%30|3|HAYIR|%3
↳ 7|EVET|%33|3|HAYIR|%37|EVET|%34|1|EVET|%31|EVET|%34|3|HAYIR|%25|EVET|%29|2|HAYIR|%25|EVET|%28|2|HAYIR|%37|EVET|%29|1|EVET|%18|EVET|%66|2|HAYI
↳ R|%18|EVET|%27|2|HAYIR|%31|EVET|%30
892 891|2026-09-11 18:52:58|1|1/4|HAYIR|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%31|T•K|EVET|%67|%52|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>DONGU_TERS>TEPE||HAYIR|%49|2|HAYIR|%29|EVET|%31|1|HAYIR|%17|EVET|%28|4|HAYIR|%29|EVET|%34|3|EVET|%17|EVET|%29|1|HAYIR|%35|EVET|%42|1|HAYI
↳ R|%35|EVET|%35|3|EVET|%35|EVET|%32|4|HAYIR|%23|EVET|%32|1|HAYIR|%23|EVET|%26|1|HAYIR|%35|EVET|%28|4|HAYIR|%23|EVET|%59|1|HAYIR|%17|EVET|%26|2
↳ |HAYIR|%29|EVET|%32
893 892|2026-09-11 18:53:54|3|3/4|EVET|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%45|C•B|EVET|%67|%51|VADI_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%69|3|EVET|%27|EVET|%45|3|EVET|%16|EVET|%28|3|EVET|%27|EVET|%42|2|HAYIR|%22|EVET|%30|3|EVET|%33|EVET|%4
↳ 6|3|EVET|%33|EVET|%48|2|HAYIR|%38|EVET|%30|3|EVET|%22|EVET|%41|2|HAYIR|%22|EVET|%27|3|EVET|%33|EVET|%35|3|EVET|%22|EVET|%86|2|HAYIR|%16|EVET|
↳ %28|3|EVET|%27|EVET|%30
894 893|2026-09-11 18:55:19|3|2/1|HAYIR|%1|%0|HAYIR|%0|%51|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%0|%37|T•K|HAYIR|%1|%59|TEPE_YON|WEAK_PERIODIC_3|TEPE>TE
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[Dosya #83/84 — Devam] Proje Yolu: app/src/main/assets/fan_data_live.csv (Satır 894 ve sonrası)

```
PE>TEPE||HAYIR|%65|2|HAYIR|%31|EVET|%37|1|HAYIR|%21|EVET|%27|2|HAYIR|%31|EVET|%36|2|HAYIR|%21|EVET|%31|2|HAYIR|%36|EVET|%42|2|HAYIR|%36|EVET|
%53|1|HAYIR|%36|EVET|%36|3|HAYIR|%26|EVET|%30|2|HAYIR|%21|EVET|%27|2|HAYIR|%36|EVET|%34|1|HAYIR|%26|EVET|%68|2|HAYIR|%15|EVET|%28|1|HAYIR|%31
|EVET|%31
```

[Dosya #84/84] Proje Yolu: fan_data_live.csv

BÖLÜM 12 · CSV Veri

Kök: /home/user/FanSuper-FANLAB | Boyut: 386.975 B (377.9 KB) | Satır: 894 satır SHA-256: 1debf2c44fd3b1709481a6bb20570cf9…

```
1 id|tarih|sayi|ensemble_tahmin|ensemble_dogru|ensemble_toplam_basari|ensemble_basari|ensemble_sec_dogru|ensemble_sec_basari|kombine_tahmin|kom
bine_dogru|kombine_basari|kombine_sec_dogru|kombine_sec_basari|kalip_tahmin|kalip_dogru|kalip_basari|yan_tahmin|yan_dogru|yan_basari|rejim|ka
lip|rejim_dizisi|anomali|guven_ayarli|Kalip_Arama_tahmin|Kalip_Arama_dogru|Kalip_Arama_basari|Kalip_Arama_aktif|Rejim_Tespiti_tahmin|Rejim_Te
spiti_dogru|Rejim_Tespiti_basari|Rejim_Tespiti_aktif|Fark_Dizisi_tahmin|Fark_Dizisi_dogru|Fark_Dizisi_basari|Fark_Dizisi_aktif|Ayna_Kalip_tah
min|Ayna_Kalip_dogru|Ayna_Kalip_basari|Ayna_Kalip_aktif|Kume_Kaymasi_tahmin|Kume_Kaymasi_dogru|Kume_Kaymasi_basari|Kume_Kaymasi_aktif|Beklent
i_Sapma_tahmin|Beklenti_Sapma_dogru|Beklenti_Sapma_basari|Beklenti_Sapma_aktif|Dalga_Tekrar_tahmin|Dalga_Tekrar_dogru|Dalga_Tekrar_basari|Dal
ga_Tekrar_aktif|Online_Gradient_tahmin|Online_Gradient_dogru|Online_Gradient_basari|Online_Gradient_aktif|Bayesian_tahmin|Bayesian_dogru|Baye
sian_basari|Bayesian_aktif|Meta_Ogrenme_tahmin|Meta_Ogrenme_dogru|Meta_Ogrenme_basari|Meta_Ogrenme_aktif|Q_Learning_tahmin|Q_Learning_dogru|Q
_Learning_basari|Q_Learning_aktif|Mini_Transformer_tahmin|Mini_Transformer_dogru|Mini_Transformer_basari|Mini_Transformer_aktif|Markov_tahmin
|Markov_dogru|Markov_basari|Markov_aktif
2 1|2026-07-24 14:51:04|2|1/2|HAYIR|%0|%0|HAYIR|%0|1/2|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|K•T|EVET|%0|KAOS|NONE|||HAYIR|0|HAYIR|%0|EVET|0|HAYIR|%0|
EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|
%0|EVET|0|HAYIR|%0|EVET|0|HAYIR|%0|EVET
3 2|2026-07-24 14:51:05|3|1/2|HAYIR|%0|%0|EVET|%0|1/2|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|K•T|EVET|%0|KAOS_|NONE_0|||HAYIR|1|HAYIR|%0|EVET|1|HAYIR|%0
|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR
|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
4 3|2026-07-24 14:51:06|2|2/1|HAYIR|%0|%0|HAYIR|%0|2/1|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|K•C|EVET|%0|DALGA_TEK_SIM_1_TEKRAR|NONE_0|DALGA_TEK_SIM_1
||HAYIR|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAY
IR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
5 4|2026-07-24 14:51:07|4|2/1|EVET|%0|%0|HAYIR|%0|4/2|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|B•C|EVET|%0|DONGU_YON|NONE_0|DONGU||HAYIR|1|HAYIR|%0|EVET|1
|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVE
T|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
6 5|2026-07-24 14:51:09|2|2/4|HAYIR|%0|%0|HAYIR|%0|4/2|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|C|HAYIR|%0|DONGU_YON|NONE_0|DONGU||HAYIR|1|HAYIR|%0|EVET|
1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EV
ET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET
7 6|2026-07-24 14:51:09|3|2|EVET|%0|%0|HAYIR|%0|2/3|EVET|%0|HAYIR|%0|2|EVET|%0|BT|HAYIR|%0|DONGU_YON|FRAGMENTARY_2|DONGU||HAYIR|2|EVET|%0|EVET|
1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|
HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET
8 7|2026-07-24 14:51:09|2|2/3|HAYIR|%0|%0|HAYIR|%0|4/3|EVET|%0|HAYIR|%0|4|EVET|%0|K|EVET|%0|DONGU_YON|FRAGMENTARY_3|DONGU||HAYIR|4|EVET|%0|EVET
|1|HAYIR|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVE
T|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET
9 8|2026-07-24 14:51:10|4|2|HAYIR|%0|%0|HAYIR|%0|2/4|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|BC|HAYIR|%0|DONGU_TERS_YON|FRAGMENTARY_4|DONGU_TERS||HAYIR|2|
HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2
|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET
10 9|2026-07-24 14:51:11|1|2/1|HAYIR|%0|%0|EVET|%0|2/4|HAYIR|%0|HAYIR|%0|1/2|EVET|%0|BC|HAYIR|%0|DONGU_TERS_YON|NONE_0|DONGU_TERS||HAYIR|1|EVET|
%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0
|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET
11 10|2026-07-24 14:51:11|1|1|HAYIR|%0|%0|HAYIR|%0|1/2|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|B|EVET|%0|TEPE_YON|NONE_0|TEPE||HAYIR|1|HAYIR|%0|EVET|1|HA
YIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1
|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
12 11|2026-07-24 14:51:13|3|2|HAYIR|%0|%0|HAYIR|%0|2/1|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|K|EVET|%0|VADI_YON|NONE_0|DALGA_TEK_SIM_1>VADI||HAYIR|1|HA
YIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|
HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET
13 12|2026-07-24 14:51:13|3|2/3|HAYIR|%0|%0|EVET|%0|2/3|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|T|EVET|%0|VADI_YON|NONE_0|DONGU>VADI||HAYIR|1|HAYIR|%0|EVE
T|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EV
ET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET
14 13|2026-07-24 14:51:14|3|3/2|HAYIR|%0|%0|HAYIR|%0|3/2|HAYIR|%0|HAYIR|%0|1/2|EVET|%0|T|EVET|%0|VADI_YON|NONE_0|DONGU>VADI||HAYIR|1|EVET|%0|EVE
T|1|EVET|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|
1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET
15 14|2026-07-24 14:51:15|1|1/3|HAYIR|%0|%0|HAYIR|%0|3/1|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|BT|HAYIR|%0|TEPE_YON|NONE_0|DONGU>TEPE||HAYIR|1|HAYIR|%0
|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR
|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET
16 15|2026-07-24 14:51:15|2|1/3|HAYIR|%0|%0|HAYIR|%0|4/3|EVET|%0|HAYIR|%0|1/2|HAYIR|%0|B|EVET|%0|VADI_YON|NONE_0|DONGU>VADI||HAYIR|1|HAYIR|%0|EV
ET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|
EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET
17 16|2026-07-24 14:51:15|4|2/1|EVET|%0|%0|HAYIR|%0|2/1|EVET|%0|HAYIR|%0|2/1|EVET|%0|K|EVET|%0|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|DONGU_TERS>BLOK_DUZ
||HAYIR|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|
%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
18 17|2026-07-24 14:51:16|2|3/4|HAYIR|%0|%0|EVET|%0|3/4|HAYIR|%0|EVET|%0|3|HAYIR|%0|BC|EVET|%0|TEPE_YON|FRAGMENTARY_3|DONGU_TERS>TEPE||HAYIR|3|H
AYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|3|
HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET
19 18|2026-07-24 14:51:20|4|2/1|EVET|%0|%0|HAYIR|%0|2/1|EVET|%0|HAYIR|%0|1/2|HAYIR|%0|KC|EVET|%0|VADI_YON|FRAGMENTARY_2|TEPE>VADI||HAYIR|1|HAYIR
|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|
%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET
20 19|2026-07-24 14:51:20|2|4|EVET|%0|%0|HAYIR|%0|3/4|HAYIR|%0|EVET|%0|3|HAYIR|%0|BC|EVET|%0|DONGU_TERS_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>VADI>D
ONGU_TERS||HAYIR|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVE
T|4|EVET|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET
21 20|2026-07-24 14:51:21|4|2|HAYIR|%0|%0|EVET|%0|2/1|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|EVET|%0|DONGU_TERS_YON|FRAGMENTARY_2|DONGU>VADI>DONGU_TERS
||HAYIR|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYI
R|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET
22 21|2026-07-24 14:51:21|4|2/4|EVET|%0|%0|HAYIR|%0|2/4|EVET|%0|HAYIR|%0|1/2|HAYIR|%0|KC|EVET|%0|DONGU_TERS_YON|NONE_0|DONGU>VADI>DONGU_TERS|PAT
TERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|
EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET
23 22|2026-07-24 14:51:22|2|4|HAYIR|%0|%0|EVET|%0|4/3|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|BC|EVET|%0|KOSEGEN_24_SALINIMM|FRAGMENTARY_2|DONGU_TERS>TEPE>
KOSEGEN_24||HAYIR|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|E
VET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET
24 23|2026-07-24 14:51:22|2|4/2|HAYIR|%0|%0|HAYIR|%0|4/2|HAYIR|%0|HAYIR|%0|1/2|EVET|%0|BC|HAYIR|%0|VADI_YON|NONE_0|DONGU_TERS>VADI>VADI|PATTERN_
BREAK:0,59|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4
|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
25 24|2026-07-24 14:51:37|1|2/3|HAYIR|%0|%0|EVET|%0|2/3|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|B•T|EVET|%0|TEPE_YON|NONE_0|DONGU>BLOK_DUZ>TEPE||HAYIR|1|H
AYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|
4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
26 25|2026-07-24 14:51:38|3|3/2|HAYIR|%0|%0|EVET|%0|3/2|HAYIR|%0|EVET|%0|3|HAYIR|%0|KT|EVET|%0|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI||HAYIR|3|HA
YIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|3|HA
YIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET
27 26|2026-07-24 14:51:39|2|4/2|HAYIR|%0|%0|HAYIR|%0|4|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|BC|HAYIR|%0|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PATTERN_BR
EAK:0,59|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 27 ve sonrası)

```
4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
27|2026-07-24 14:51:42|1|3/2|HAYIR|%0|%0|HAYIR|%0|3|HAYIR|%0|HAYIR|%0|3|HAYIR|%0|T|EVET|%0|BLOK_TERS_TEKRAR|FRAGMENTARY_2|VADI>DONGU_TERS>BLOK_TERS|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET
28|2026-07-24 14:51:43|4|2/4|HAYIR|%0|%0|EVET|%0|2/4|HAYIR|%0|EVET|%0|1/2|HAYIR|%0|KC|EVET|%0|DONGU_YON|NONE_0|BLOK_DUZ>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
29|2026-07-24 14:51:43|4|2/4|HAYIR|%0|%0|HAYIR|%0|2|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|EVET|%0|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU_TERS>VADI||HAYIR|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
30|2026-07-24 14:51:45|1|1/4|HAYIR|%0|%0|HAYIR|%0|1/3|HAYIR|%0|EVET|%0|1|HAYIR|%0|BC|EVET|%0|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>KOSEGEN_24>DONGU|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET
31|2026-07-24 14:51:46|3|2/3|EVET|%0|%0|HAYIR|%0|2/3|EVET|%0|HAYIR|%0|2|EVET|%0|K|EVET|%0|VADI_YON|FRAGMENTARY_2|VADI>TEPE>VADI|PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET
32|2026-07-24 14:51:47|2|4/2|HAYIR|%0|%0|HAYIR|%0|4/1|HAYIR|%0|EVET|%0|1|EVET|%0|BC|HAYIR|%0|VADI_YON|FRAGMENTARY_2|VADI>TEPE>VADI||HAYIR|1|EVET|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
33|2026-07-24 14:51:48|1|4/3|HAYIR|%0|%0|HAYIR|%0|4/3|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|B|HAYIR|%0|VADI_YON|FRAGMENTARY_4|TEPE>VADI>VADI||HAYIR|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET
34|2026-07-24 14:51:48|1|3/1|HAYIR|%0|%0|EVET|%0|3/1|HAYIR|%0|EVET|%0|3|HAYIR|%0|B|EVET|%0|TEPE_YON|FRAGMENTARY_2|DONGU>TEPE>TEPE|PATTERN_BREAK:0,63|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET
35|2026-07-24 14:51:49|1|3/1|EVET|%0|%0|HAYIR|%0|3/1|EVET|%0|HAYIR|%0|3|EVET|%0|T|EVET|%0|BLOK_TERS_TEKRAR|FRAGMENTARY_2|DONGU>BLOK_TERS>BLOK_TERS|PATTERN_BREAK:0,59|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET
36|2026-07-24 14:51:53|3|3/2|HAYIR|%0|%0|HAYIR|%0|2/3|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KT|HAYIR|%0|VADI_YON|FRAGMENTARY_2|DONGU>DONGU>VADI||HAYIR|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET
37|2026-07-24 14:51:53|4|2/1|EVET|%0|%0|HAYIR|%0|2/4|EVET|%0|HAYIR|%0|1/2|HAYIR|%0|KC|EVET|%0|BLOK_DUZ_TEKRAR|NONE_0|VADI>VADI>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET
38|2026-07-24 14:51:54|2|2/1|HAYIR|%0|%0|HAYIR|%0|4/2|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%0|C|EVET|%0|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_2>DONGU>VADI||HAYIR|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
39|2026-07-24 14:51:55|3|2/1|HAYIR|%0|%0|HAYIR|%0|2/3|HAYIR|%0|EVET|%0|2|HAYIR|%0|K|HAYIR|%0|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
40|2026-07-24 14:51:56|3|3/2|HAYIR|%0|%0|HAYIR|%0|3/1|HAYIR|%0|HAYIR|%0|3|HAYIR|%0|K|HAYIR|%0|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|BLOK_TERS>VADI>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET
41|2026-07-24 14:51:58|4|2/4|EVET|%0|%0|HAYIR|%0|2|EVET|%0|HAYIR|%0|2|EVET|%0|KC|EVET|%0|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|VADI>VADI>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET
42|2026-07-24 14:51:59|2|3/4|HAYIR|%0|%0|EVET|%0|3/4|HAYIR|%0|EVET|%0|3|HAYIR|%0|B|EVET|%0|TEPE_YON|FRAGMENTARY_2|DONGU>TEPE>TEPE||HAYIR|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET
43|2026-07-24 14:52:00|4|2/4|HAYIR|%0|%0|HAYIR|%0|2/4|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|HAYIR|%0|DONGU_YON|FRAGMENTARY_2|TEPE>BLOK_TERS>DONGU|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
44|2026-07-24 14:52:02|3|2/3|HAYIR|%0|%0|HAYIR|%0|2/3|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%0|B•T|EVET|%0|DONGU_YON|NONE_0|VADI>VADI>DONGU|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET
45|2026-07-24 14:52:03|4|2/4|HAYIR|%0|%0|EVET|%0|2|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|EVET|%0|DONGU_YON|FRAGMENTARY_2|VADI>BLOK_DUZ>DONGU||HAYIR|2|HAYIR|%0|EVET|4|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET
46|2026-07-24 14:52:03|4|4/2|HAYIR|%0|%0|HAYIR|%0|2/1|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%0|C|HAYIR|%0|DONGU_YON|FRAGMENTARY_2|DALGA_TEK_SIM_3>VADI>DONGU|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
47|2026-07-24 14:52:05|3|4/3|HAYIR|%0|%0|HAYIR|%0|4/2|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|BC|HAYIR|%0|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET
48|2026-07-24 14:52:06|1|3/4|HAYIR|%0|%0|HAYIR|%0|2/3|EVET|%0|HAYIR|%0|2|EVET|%0|B|HAYIR|%0|DONGU_YON|FRAGMENTARY_2|VADI>BLOK_DUZ>DONGU|PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET
49|2026-07-24 14:52:07|2|4/2|HAYIR|%0|%0|HAYIR|%0|4/1|HAYIR|%0|HAYIR|%0|4|HAYIR|%0|BC|EVET|%0|TEPE_YON|FRAGMENTARY_3|TEPE>BLOK_DUZ>TEPE||HAYIR|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
50|2026-07-24 14:52:09|3|2/3|EVET|%0|%0|HAYIR|%0|2/3|EVET|%0|HAYIR|%0|2/3|EVET|%0|B•C|EVET|%0|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI|PATTERN_BREAK:0,61|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET
51|2026-07-24 14:52:10|2|4/3|HAYIR|%0|%0|EVET|%0|4/1|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%0|BC|EVET|%0|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
52|2026-07-24 14:52:11|3|2/3|HAYIR|%0|%0|HAYIR|%0|2/3|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%0|K•C|EVET|%0|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU>VADI|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|4|EVET|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
53|2026-07-24 14:52:12|4|2/4|HAYIR|%0|%0|HAYIR|%0|2/4|HAYIR|%0|HAYIR|%0|2|HAYIR|%0|KC|EVET|%0|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU>VADI|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
54|2026-07-24 14:52:14|1|3/1|HAYIR|%40|%0|EVET|%40|3/1|HAYIR|%0|EVET|%20|3|HAYIR|%0|B•C|HAYIR|%60|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET
55|2026-07-24 14:52:16|1|3/1|EVET|%50|%16|HAYIR|%33|3/1|EVET|%16|HAYIR|%16|3|EVET|%16|B•C|EVET|%83|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|3|EVET|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET
56|2026-07-24 14:52:20|3|2/4|HAYIR|%42|%14|HAYIR|%28|2/3|HAYIR|%14|HAYIR|%14|3/2|HAYIR|%14|C|HAYIR|%57|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|VADI>DONGU>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
57|2026-07-24 14:52:20|1|2/1|HAYIR|%37|%12|HAYIR|%25|2/1|HAYIR|%12|HAYIR|%12|2|HAYIR|%12|T|EVET|%62|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE|REGIME_SHIFT:0,50|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
58|2026-07-24 14:52:21|3|2/4|HAYIR|%44|%11|EVET|%33|2/4|HAYIR|%11|EVET|%22|2/4|HAYIR|%11|K•T|HAYIR|%55|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYI
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 59 ve sonrası)

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R|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET
59|2026-07-24 14:52:22|4|2/4|HAYIR|%40|%10|HAYIR|%30|2/4|HAYIR|%10|HAYIR|%20|2|HAYIR|%10|K•C|HAYIR|%50|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE
>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET
60|2026-07-24 14:52:29|3|4/1|EVET|%45|%18|HAYIR|%27|4/1|EVET|%18|HAYIR|%18|4|EVET|%18|K•T|HAYIR|%45|VADI_YON|FRAGMENTARY_2|DONGU>VADI>VADI|PA
TTERN_BREAK:0,59|EVET|4|EVET|%20|EVET|4|EVET|%0|EVET|4|EVET|%40|EVET|2|HAYIR|%20|EVET|4|EVET|%20|EVET|1|HAYIR|%20|EVET|4|EVET|%60|EVET|4|EVET
|%20|EVET|4|EVET|%20|EVET|4|EVET|%20|EVET|1|HAYIR|%20|EVET|3|HAYIR|%20|EVET|4|EVET|%20|EVET
61|2026-07-24 14:52:30|4|4/2|HAYIR|%50|%16|EVET|%33|4/2|HAYIR|%16|EVET|%25|4/2|HAYIR|%16|K•T|EVET|%50|DONGU_TERS_YON|FRAGMENTARY_2|DONGU>VADI
>DONGU_TERS|PATTERN_BREAK:0,59|EVET|4|HAYIR|%33|EVET|4|HAYIR|%16|EVET|1|HAYIR|%50|EVET|4|HAYIR|%16|EVET|4|HAYIR|%33|EVET|4|HAYIR|%16|EVET|3|H
AYIR|%66|EVET|4|HAYIR|%33|EVET|2|EVET|%33|EVET|4|HAYIR|%33|EVET|4|HAYIR|%16|EVET|3|HAYIR|%16|EVET|2|EVET|%33|EVET
62|2026-07-24 14:52:30|2|4/3|HAYIR|%53|%15|EVET|%38|4/3|HAYIR|%15|EVET|%30|4/3|HAYIR|%15|BT|EVET|%53|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>D
ONGU_TERS|PATTERN_BREAK:0,59|EVET|4|HAYIR|%28|EVET|4|HAYIR|%14|EVET|4|HAYIR|%42|EVET|4|HAYIR|%14|EVET|3|EVET|%28|EVET|4|HAYIR|%14|EVET|3|EVET
|%57|EVET|4|HAYIR|%28|EVET|4|HAYIR|%42|EVET|4|HAYIR|%28|EVET|4|HAYIR|%14|EVET|2|HAYIR|%14|EVET|4|HAYIR|%42|EVET
63|2026-07-24 14:52:33|3|4/3|HAYIR|%50|%14|HAYIR|%35|2/3|HAYIR|%14|HAYIR|%28|2/3|HAYIR|%14|B|HAYIR|%50|DONGU_TERS_YON|FRAGMENTARY_2|DALGA_TEK
_SIM_1>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%25|EVET|4|HAYIR|%12|EVET|3|HAYIR|%37|EVET|1|EVET|%12|EVET|3|HAYIR|%37|EVET|3|HAYIR|%1
2|EVET|4|HAYIR|%62|EVET|4|HAYIR|%25|EVET|4|HAYIR|%37|EVET|3|HAYIR|%25|EVET|3|HAYIR|%12|EVET|3|HAYIR|%12|EVET|2|HAYIR|%37|EVET
64|2026-07-24 14:52:34|1|2/3|HAYIR|%46|%13|HAYIR|%33|2/3|HAYIR|%13|HAYIR|%26|2|HAYIR|%13|B|EVET|%53|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_TERS>BL
OK_DUZ>DONGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%22|EVET|3|HAYIR|%11|EVET|2|HAYIR|%33|EVET|1|EVET|%22|EVET|2|HAYIR|%33|EVET|2|HAYIR|%11|EVE
T|3|HAYIR|%55|EVET|3|HAYIR|%22|EVET|3|HAYIR|%33|EVET|2|HAYIR|%22|EVET|1|EVET|%11|EVET|3|HAYIR|%11|EVET|2|HAYIR|%33|EVET
65|2026-07-24 14:52:35|1|3/1|HAYIR|%50|%12|EVET|%37|3/1|HAYIR|%12|EVET|%31|3|HAYIR|%12|BT|EVET|%56|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>DON
GU_TERS|PATTERN_BREAK:0,59|EVET|3|HAYIR|%20|EVET|4|HAYIR|%10|EVET|4|HAYIR|%30|EVET|3|HAYIR|%30|EVET|3|HAYIR|%30|EVET|3|HAYIR|%10|EVET|3|HAYIR
|%50|EVET|3|HAYIR|%20|EVET|1|EVET|%30|EVET|3|HAYIR|%20|EVET|1|EVET|%20|EVET|4|HAYIR|%10|EVET|3|HAYIR|%30|EVET
66|2026-07-24 14:52:35|1|3/1|HAYIR|%47|%11|HAYIR|%35|3/1|HAYIR|%11|HAYIR|%29|3|HAYIR|%11|BT|HAYIR|%52|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>
DONGU_TERS|PATTERN_BREAK:0,59|EVET|3|HAYIR|%18|EVET|4|HAYIR|%9|EVET|3|HAYIR|%27|EVET|3|HAYIR|%27|EVET|3|HAYIR|%27|EVET|3|HAYIR|%9|EVET|3|HAYI
R|%45|EVET|1|HAYIR|%18|EVET|1|HAYIR|%36|EVET|3|HAYIR|%18|EVET|3|HAYIR|%27|EVET|1|HAYIR|%9|EVET|1|HAYIR|%27|EVET
67|2026-07-24 14:52:46|2|4/3|HAYIR|%44|%11|HAYIR|%33|3/4|HAYIR|%11|HAYIR|%27|3|HAYIR|%11|B|HAYIR|%50|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PA
TTERN_BREAK:0,59|EVET|3|HAYIR|%16|EVET|4|HAYIR|%8|EVET|4|HAYIR|%25|EVET|4|HAYIR|%25|EVET|3|HAYIR|%25|EVET|3|HAYIR|%8|EVET|3|HAYIR|%41|EVET|1|
HAYIR|%16|EVET|4|HAYIR|%33|EVET|4|HAYIR|%16|EVET|1|HAYIR|%25|EVET|1|HAYIR|%8|EVET|3|HAYIR|%25|EVET
68|2026-07-24 14:52:47|2|3/1|HAYIR|%47|%10|EVET|%36|1/3|EVET|%15|HAYIR|%26|1|EVET|%15|K•T|EVET|%52|VADI_YON|FRAGMENTARY_2|DONGU>VADI>VADI|PAT
TERN_BREAK:0,59|EVET|1|EVET|%15|EVET|4|HAYIR|%7|EVET|1|EVET|%23|EVET|3|HAYIR|%23|EVET|1|EVET|%23|EVET|1|EVET|%7|EVET|1|EVET|%38|EVET|1|EVET|%
15|EVET|4|HAYIR|%30|EVET|1|EVET|%15|EVET|1|EVET|%23|EVET|2|HAYIR|%7|EVET|4|HAYIR|%23|EVET
69|2026-07-24 14:52:48|1|3|HAYIR|%50|%10|EVET|%40|3/1|HAYIR|%15|EVET|%30|3/4|HAYIR|%15|T|EVET|%55|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TEPE
||HAYIR|3|HAYIR|%21|EVET|4|HAYIR|%7|EVET|3|HAYIR|%28|EVET|3|HAYIR|%21|EVET|3|HAYIR|%28|EVET|3|HAYIR|%14|EVET|3|HAYIR|%42|EVET|1|EVET|%21|EVET
|1|EVET|%28|EVET|3|HAYIR|%21|EVET|3|HAYIR|%28|EVET|1|EVET|%7|EVET|1|EVET|%21|EVET
70|2026-07-24 14:52:49|1|1|HAYIR|%47|%9|HAYIR|%38|1/3|HAYIR|%14|HAYIR|%28|1/3|HAYIR|%14|KT|EVET|%57|VADI_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>VA
DI||HAYIR|1|HAYIR|%20|EVET|4|HAYIR|%6|EVET|1|HAYIR|%26|EVET|1|HAYIR|%20|EVET|1|HAYIR|%26|EVET|1|HAYIR|%13|EVET|3|HAYIR|%40|EVET|1|HAYIR|%26|E
VET|1|HAYIR|%33|EVET|1|HAYIR|%20|EVET|1|HAYIR|%26|EVET|1|HAYIR|%13|EVET|1|HAYIR|%26|EVET
71|2026-07-24 14:52:50|2|2/1|HAYIR|%45|%9|HAYIR|%36|2/3|HAYIR|%13|EVET|%31|2|HAYIR|%13|KT|EVET|%59|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEP
E||HAYIR|2|HAYIR|%18|EVET|4|HAYIR|%6|EVET|2|HAYIR|%25|EVET|1|HAYIR|%18|EVET|2|HAYIR|%25|EVET|2|HAYIR|%12|EVET|3|EVET|%37|EVET|1|HAYIR|%25|EVE
T|4|HAYIR|%31|EVET|2|HAYIR|%18|EVET|2|HAYIR|%25|EVET|1|HAYIR|%12|EVET|3|EVET|%25|EVET
72|2026-07-24 14:52:53|3|2/4|HAYIR|%43|%8|HAYIR|%34|2/4|HAYIR|%13|HAYIR|%30|2|HAYIR|%13|K|EVET|%60|DONGU_YON|FRAGMENTARY_2|VADI>DONGU_TERS>DO
NGU|PATTERN_BREAK:0,59|EVET|2|HAYIR|%17|EVET|4|HAYIR|%5|EVET|4|HAYIR|%23|EVET|1|EVET|%17|EVET|2|HAYIR|%23|EVET|2|HAYIR|%11|EVET|4|HAYIR|%41|E
VET|1|EVET|%23|EVET|4|HAYIR|%29|EVET|2|HAYIR|%17|EVET|2|HAYIR|%23|EVET|1|EVET|%11|EVET|2|HAYIR|%29|EVET
73|2026-07-24 14:52:54|1|1/2|HAYIR|%45|%8|EVET|%37|1/2|HAYIR|%12|EVET|%33|1/2|HAYIR|%12|K•T|EVET|%62|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>
DONGU||HAYIR|1|HAYIR|%16|EVET|1|HAYIR|%5|EVET|2|EVET|%22|EVET|1|HAYIR|%22|EVET|1|HAYIR|%22|EVET|1|HAYIR|%11|EVET|3|HAYIR|%38|EVET|1|HAYIR|%27
|EVET|1|HAYIR|%27|EVET|1|HAYIR|%16|EVET|1|HAYIR|%22|EVET|1|HAYIR|%16|EVET|2|EVET|%27|EVET
74|2026-07-24 14:52:56|2|3/4|HAYIR|%44|%8|HAYIR|%36|3/4|HAYIR|%12|HAYIR|%32|3/2|HAYIR|%12|T|HAYIR|%60|DONGU_YON|FRAGMENTARY_2|DONGU>DONGU_TER
S>DONGU|PATTERN_BREAK:0,59|EVET|3|HAYIR|%15|EVET|1|HAYIR|%5|EVET|4|HAYIR|%26|EVET|1|HAYIR|%21|EVET|3|HAYIR|%21|EVET|3|HAYIR|%10|EVET|3|HAYIR|
%36|EVET|2|EVET|%26|EVET|3|HAYIR|%26|EVET|4|HAYIR|%15|EVET|3|HAYIR|%21|EVET|2|EVET|%15|EVET|3|HAYIR|%31|EVET
75|2026-07-24 14:52:57|2|1/3|HAYIR|%46|%7|EVET|%38|1/3|HAYIR|%11|EVET|%34|1|HAYIR|%11|KT|EVET|%61|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|PAT
TERN_BREAK:0,59|EVET|1|HAYIR|%15|EVET|1|HAYIR|%5|EVET|3|EVET|%25|EVET|1|HAYIR|%20|EVET|1|HAYIR|%20|EVET|1|HAYIR|%10|EVET|1|HAYIR|%35|EVET|1|H
AYIR|%30|EVET|3|EVET|%25|EVET|1|HAYIR|%15|EVET|1|HAYIR|%20|EVET|2|HAYIR|%20|EVET|1|HAYIR|%30|EVET
76|2026-07-24 14:52:58|3|1/2|HAYIR|%48|%7|EVET|%40|2/1|EVET|%14|HAYIR|%33|1/2|HAYIR|%11|KT|EVET|%62|DONGU_YON|FRAGMENTARY_2|TEPE>VADI>DONGU|P
ATTERN_BREAK:0,59|EVET|1|HAYIR|%14|EVET|4|HAYIR|%4|EVET|1|HAYIR|%28|EVET|1|HAYIR|%19|EVET|2|EVET|%19|EVET|2|EVET|%9|EVET|4|HAYIR|%33|EVET|2|E
VET|%28|EVET|4|HAYIR|%28|EVET|1|HAYIR|%14|EVET|1|HAYIR|%19|EVET|2|EVET|%19|EVET|1|HAYIR|%28|EVET
77|2026-07-24 14:52:59|2|3/2|HAYIR|%46|%7|HAYIR|%39|4/3|EVET|%17|HAYIR|%32|4/3|EVET|%14|K|HAYIR|%60|DONGU_YON|FRAGMENTARY_2|DONGU>TEPE>DONGU|
PATTERN_BREAK:0,59|EVET|4|EVET|%13|EVET|2|HAYIR|%4|EVET|3|HAYIR|%27|EVET|1|HAYIR|%18|EVET|4|EVET|%22|EVET|4|EVET|%13|EVET|3|HAYIR|%31|EVET|2|
HAYIR|%31|EVET|3|HAYIR|%27|EVET|3|HAYIR|%13|EVET|4|EVET|%18|EVET|2|HAYIR|%22|EVET|4|EVET|%27|EVET
78|2026-07-24 14:53:00|4|2/3|HAYIR|%44|%6|HAYIR|%37|2/1|HAYIR|%17|EVET|%34|2/1|HAYIR|%13|K•T|EVET|%62|DONGU_YON|FRAGMENTARY_2|DONGU_TERS>VADI
>DONGU|PATTERN_BREAK:0,59|EVET|2|HAYIR|%17|EVET|2|HAYIR|%4|EVET|1|EVET|%26|EVET|3|HAYIR|%17|EVET|2|HAYIR|%26|EVET|2|HAYIR|%17|EVET|2|HAYIR|%3
0|EVET|2|HAYIR|%30|EVET|2|HAYIR|%26|EVET|2|HAYIR|%13|EVET|1|EVET|%21|EVET|2|HAYIR|%21|EVET|2|HAYIR|%30|EVET
79|2026-07-24 14:53:02|1|1/3|HAYIR|%43|%6|HAYIR|%36|1/3|HAYIR|%16|HAYIR|%33|1|HAYIR|%13|T|EVET|%63|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>TEP
E|PATTERN_BREAK:0,59|EVET|1|HAYIR|%16|EVET|1|HAYIR|%4|EVET|1|HAYIR|%29|EVET|4|HAYIR|%16|EVET|1|HAYIR|%25|EVET|1|HAYIR|%16|EVET|2|EVET|%29|EVE
T|1|HAYIR|%29|EVET|1|HAYIR|%25|EVET|1|HAYIR|%12|EVET|1|HAYIR|%25|EVET|2|EVET|%20|EVET|1|HAYIR|%29|EVET
80|2026-07-24 14:53:03|2|2/1|HAYIR|%41|%6|HAYIR|%35|2/3|HAYIR|%16|EVET|%35|2/3|HAYIR|%12|B•C|EVET|%64|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|DONGU_TER
S>DONGU>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|2|HAYIR|%16|EVET|1|HAYIR|%4|EVET|1|HAYIR|%28|EVET|1|HAYIR|%16|EVET|2|HAYIR|%24|EVE
T|2|HAYIR|%16|EVET|3|EVET|%32|EVET|2|HAYIR|%28|EVET|3|EVET|%24|EVET|2|HAYIR|%12|EVET|1|HAYIR|%24|EVET|1|HAYIR|%24|EVET|3|EVET|%28|EVET
81|2026-07-24 14:53:07|3|2/1|HAYIR|%43|%6|EVET|%37|2/1|HAYIR|%15|EVET|%37|2/1|HAYIR|%12|KC|EVET|%65|VADI_YON|FRAGMENTARY_2|TEPE>DONGU>VADI|RE
GIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|2|HAYIR|%15|EVET|1|EVET|%3|EVET|1|EVET|%26|EVET|4|HAYIR|%15|EVET|2|HAYIR|%23|EVET|2|HAYIR|%15|EVET|4|
HAYIR|%34|EVET|2|HAYIR|%26|EVET|2|HAYIR|%26|EVET|1|EVET|%11|EVET|2|HAYIR|%23|EVET|2|HAYIR|%23|EVET|2|HAYIR|%30|EVET
82|2026-07-24 14:53:09|1|2/1|HAYIR|%45|%6|EVET|%39|2/1|HAYIR|%15|EVET|%39|2|HAYIR|%12|K|EVET|%66|DONGU_TERS_YON|FRAGMENTARY_2|VADI>DONGU>DONG
U_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%14|EVET|1|EVET|%7|EVET|2|HAYIR|%29|EVET|4|HAYIR|%14|EVET|2|HAYIR|%22|EVET|2|HAYIR|%14|EVET|2|HAYIR|%3
3|EVET|1|EVET|%25|EVET|2|HAYIR|%25|EVET|2|HAYIR|%14|EVET|2|HAYIR|%22|EVET|1|EVET|%22|EVET|2|HAYIR|%29|EVET
83|2026-07-24 14:53:10|1|1/2|EVET|%47|%8|HAYIR|%38|1/2|EVET|%17|HAYIR|%38|1/3|EVET|%14|K•T|EVET|%67|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>DON
GU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|1|EVET|%14|EVET|1|EVET|%10|EVET|1|EVET|%28|EVET|1|EVET|%14|EVET|1|EVET|%21|EVET|1|EVET|%14|EVET|2|HAYIR
|%32|EVET|1|EVET|%28|EVET|1|EVET|%25|EVET|1|EVET|%14|EVET|1|EVET|%21|EVET|1|EVET|%25|EVET|2|HAYIR|%28|EVET
84|2026-07-24 14:53:12|1|2/1|HAYIR|%45|%8|HAYIR|%37|2/1|HAYIR|%17|HAYIR|%37|2/3|HAYIR|%14|K|HAYIR|%65|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU>T
EPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%17|EVET|1|HAYIR|%13|EVET|2|HAYIR|%31|EVET|2|HAYIR|%17|EVET|2|HAYIR|%24|EVET|2|HAYIR|%17|EVET|2|HAYIR|%31
|EVET|1|HAYIR|%31|EVET|1|HAYIR|%27|EVET|2|HAYIR|%17|EVET|3|EVET|%24|EVET|1|HAYIR|%27|EVET|1|HAYIR|%27|EVET
85|2026-07-24 14:53:15|3|1/4|HAYIR|%47|%8|EVET|%38|4/1|EVET|%19|HAYIR|%36|4/1|EVET|%16|K|HAYIR|%63|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>DON
GU>VADI|PATTERN_BREAK:0,59|EVET|4|EVET|%16|EVET|1|HAYIR|%13|EVET|4|EVET|%30|EVET|2|HAYIR|%16|EVET|4|EVET|%23|EVET|4|EVET|%16|EVET|1|HAYIR|%30
|EVET|1|HAYIR|%30|EVET|1|HAYIR|%26|EVET|1|HAYIR|%16|EVET|1|HAYIR|%26|EVET|1|HAYIR|%26|EVET|4|EVET|%26|EVET
86|2026-07-24 14:53:17|4|2|EVET|%48|%10|HAYIR|%37|2/1|EVET|%21|HAYIR|%35|2|EVET|%18|K•T|EVET|%64|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_TERS>DONGU
>DONGU_TERS||HAYIR|2|EVET|%19|EVET|1|HAYIR|%12|EVET|2|EVET|%32|EVET|4|HAYIR|%16|EVET|2|EVET|%25|EVET|2|EVET|%19|EVET|2|EVET|%29|EVET|1|HAYIR|
%29|EVET|2|EVET|%25|EVET|2|EVET|%16|EVET|3|HAYIR|%25|EVET|1|HAYIR|%25|EVET|2|EVET|%29|EVET
87|2026-07-24 14:53:20|2|3|HAYIR|%47|%10|HAYIR|%36|3/4|HAYIR|%21|HAYIR|%34|3|HAYIR|%18|T|HAYIR|%63|TEPE_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>TEP
E>TEPE||HAYIR|3|HAYIR|%21|EVET|1|HAYIR|%12|EVET|3|HAYIR|%34|EVET|1|HAYIR|%15|EVET|3|HAYIR|%28|EVET|3|HAYIR|%21|EVET|3|HAYIR|%31|EVET|1|HAYIR|
%28|EVET|3|HAYIR|%28|EVET|3|HAYIR|%18|EVET|3|HAYIR|%25|EVET|1|HAYIR|%25|EVET|3|HAYIR|%31|EVET
88|2026-07-24 14:53:21|2|2/1|EVET|%48|%12|HAYIR|%35|1/3|HAYIR|%20|HAYIR|%33|1|HAYIR|%17|KT|EVET|%64|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>BLOK_DUZ>
VADI|PATTERN_BREAK:0,59|EVET|1|HAYIR|%21|EVET|3|HAYIR|%12|EVET|2|EVET|%33|EVET|1|HAYIR|%15|EVET|1|HAYIR|%27|EVET|1|HAYIR|%21|EVET|3|HAYIR|%30
|EVET|2|EVET|%27|EVET|3|HAYIR|%27|EVET|1|HAYIR|%18|EVET|1|HAYIR|%24|EVET|2|EVET|%24|EVET|1|HAYIR|%30|EVET
89|2026-07-24 14:53:22|2|4/3|HAYIR|%47|%12|HAYIR|%35|1/3|EVET|%22|HAYIR|%32|1|EVET|%20|B•C|HAYIR|%62|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PA
TTERN_BREAK:0,59|EVET|1|EVET|%20|EVET|1|EVET|%11|EVET|4|HAYIR|%35|EVET|1|EVET|%14|EVET|1|EVET|%26|EVET|1|EVET|%20|EVET|3|HAYIR|%29|EVET|2|HAY
IR|%29|EVET|3|HAYIR|%26|EVET|1|EVET|%17|EVET|1|EVET|%23|EVET|2|HAYIR|%26|EVET|1|EVET|%29|EVET
90|2026-07-24 14:53:25|1|1/3|HAYIR|%48|%12|EVET|%36|1/3|HAYIR|%21|EVET|%34|1|HAYIR|%19|K|EVET|%63|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEPE
|PATTERN_BREAK:0,59|EVET|1|HAYIR|%22|EVET|1|HAYIR|%14|EVET|1|HAYIR|%34|EVET|3|EVET|%17|EVET|1|HAYIR|%28|EVET|1|HAYIR|%22|EVET|2|HAYIR|%28|EVE
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 91 ve sonrası)

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T|2|HAYIR|%28|EVET|1|HAYIR|%25|EVET|1|HAYIR|%20|EVET|1|HAYIR|%25|EVET|2|HAYIR|%25|EVET|1|HAYIR|%31|EVET
91|2026-07-24 14:53:28|3|2/4|HAYIR|%47|%11|HAYIR|%35|2/4|HAYIR|%21|HAYIR|%33|2/4|HAYIR|%19|KC|HAYIR|%61|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%22|EVET|1|HAYIR|%13|EVET|4|HAYIR|%33|EVET|3|EVET|%19|EVET|2|HAYIR|%27|EVET|2|HAYIR|%22|EVET|1|HAYIR|%27|EVET|2|HAYIR|%27|EVET|4|HAYIR|%25|EVET|2|HAYIR|%19|EVET|2|HAYIR|%25|EVET|2|HAYIR|%25|EVET|4|HAYIR|%30|EVET
92|2026-07-24 14:53:29|3|1/3|HAYIR|%48|%11|EVET|%37|3/1|EVET|%23|HAYIR|%32|3/4|EVET|%20|K•T|EVET|%62|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|3|EVET|%21|EVET|3|EVET|%13|EVET|1|HAYIR|%32|EVET|4|HAYIR|%21|EVET|3|EVET|%27|EVET|3|EVET|%21|EVET|4|HAYIR|%27|EVET|1|HAYIR|%27|EVET|4|HAYIR|%24|EVET|3|EVET|%18|EVET|3|EVET|%24|EVET|2|HAYIR|%24|EVET|4|HAYIR|%29|EVET
93|2026-07-24 14:53:32|3|1/2|HAYIR|%47|%11|HAYIR|%36|1/3|HAYIR|%22|HAYIR|%31|1/3|HAYIR|%20|K|HAYIR|%61|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|1|HAYIR|%23|EVET|2|HAYIR|%15|EVET|1|HAYIR|%31|EVET|4|EVET|%21|EVET|1|HAYIR|%28|EVET|1|HAYIR|%23|EVET|1|HAYIR|%26|EVET|2|HAYIR|%26|EVET|4|EVET|%23|EVET|1|HAYIR|%21|EVET|1|HAYIR|%26|EVET|2|HAYIR|%23|EVET|3|HAYIR|%28|EVET
94|2026-07-24 14:53:33|4|2/4|HAYIR|%48|%11|EVET|%37|2/3|HAYIR|%22|HAYIR|%31|2|HAYIR|%20|KC|EVET|%62|VADI_YON|FRAGMENTARY_2|DONGU>DONGU_TERS>VADI||HAYIR|2|HAYIR|%23|EVET|2|HAYIR|%15|EVET|4|EVET|%30|EVET|4|EVET|%23|EVET|2|HAYIR|%28|EVET|2|HAYIR|%23|EVET|2|HAYIR|%25|EVET|2|HAYIR|%25|EVET|2|HAYIR|%25|EVET|2|HAYIR|%20|EVET|2|HAYIR|%25|EVET|2|HAYIR|%23|EVET|2|HAYIR|%28|EVET
95|2026-07-24 14:53:34|4|3/1|HAYIR|%47|%10|HAYIR|%36|3/2|HAYIR|%21|HAYIR|%30|3/2|HAYIR|%19|T|HAYIR|%60|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PATTERN_BREAK:0,59|EVET|3|HAYIR|%22|EVET|2|HAYIR|%15|EVET|3|HAYIR|%32|EVET|1|HAYIR|%25|EVET|3|HAYIR|%27|EVET|3|HAYIR|%22|EVET|2|HAYIR|%25|EVET|2|HAYIR|%25|EVET|3|HAYIR|%20|EVET|3|HAYIR|%25|EVET|1|HAYIR|%22|EVET|2|HAYIR|%27|EVET
96|2026-07-24 14:53:35|4|1/2|HAYIR|%48|%10|EVET|%38|2/1|EVET|%23|HAYIR|%29|2/3|EVET|%21|B•C|EVET|%61|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|2|EVET|%21|EVET|2|EVET|%14|EVET|1|HAYIR|%31|EVET|3|HAYIR|%24|EVET|3|HAYIR|%26|EVET|1|HAYIR|%21|EVET|2|EVET|%24|EVET|4|HAYIR|%24|EVET|2|EVET|%24|EVET|2|EVET|%19|EVET|1|HAYIR|%24|EVET|1|HAYIR|%21|EVET|2|EVET|%26|EVET
97|2026-07-24 14:53:37|2|3/4|HAYIR|%47|%10|HAYIR|%37|3/2|HAYIR|%22|HAYIR|%29|2/3|HAYIR|%20|B•C|HAYIR|%60|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%23|EVET|2|HAYIR|%16|EVET|3|HAYIR|%30|EVET|1|EVET|%23|EVET|2|HAYIR|%26|EVET|2|HAYIR|%21|EVET|3|HAYIR|%26|EVET|3|HAYIR|%23|EVET|3|HAYIR|%26|EVET|2|HAYIR|%21|EVET|2|HAYIR|%23|EVET|1|EVET|%21|EVET|3|HAYIR|%28|EVET
98|2026-07-24 14:53:38|1|1/3|EVET|%48|%12|HAYIR|%36|1/3|EVET|%24|HAYIR|%28|3/1|HAYIR|%20|T|EVET|%61|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%23|EVET|2|HAYIR|%16|EVET|1|EVET|%30|EVET|3|HAYIR|%25|EVET|1|EVET|%25|EVET|1|EVET|%20|EVET|2|HAYIR|%25|EVET|1|EVET|%23|EVET|1|EVET|%25|EVET|3|HAYIR|%20|EVET|1|EVET|%23|EVET|1|EVET|%23|EVET|1|EVET|%27|EVET
99|2026-07-24 14:53:40|1|2/1|HAYIR|%48|%12|HAYIR|%36|1/3|HAYIR|%24|EVET|%30|1/3|HAYIR|%20|B•C|EVET|%62|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|1|HAYIR|%22|EVET|1|HAYIR|%15|EVET|2|HAYIR|%31|EVET|3|EVET|%25|EVET|1|HAYIR|%27|EVET|1|HAYIR|%22|EVET|2|HAYIR|%25|EVET|1|HAYIR|%25|EVET|1|HAYIR|%27|EVET|2|HAYIR|%20|EVET|2|HAYIR|%25|EVET|1|HAYIR|%25|EVET|1|HAYIR|%29|EVET
100|2026-07-24 14:53:44|3|4/1|EVET|%49|%13|HAYIR|%35|4/3|EVET|%25|HAYIR|%29|4/3|EVET|%21|K|EVET|%62|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE||HAYIR|4|EVET|%22|EVET|3|HAYIR|%15|EVET|4|EVET|%31|EVET|1|HAYIR|%26|EVET|1|HAYIR|%26|EVET|4|EVET|%22|EVET|1|HAYIR|%24|EVET|1|HAYIR|%24|EVET|4|EVET|%26|EVET|1|HAYIR|%20|EVET|4|EVET|%24|EVET|1|HAYIR|%24|EVET|4|EVET|%28|EVET
101|2026-07-24 14:53:51|4|2/4|HAYIR|%48|%13|HAYIR|%34|2/4|HAYIR|%25|HAYIR|%28|2|HAYIR|%21|C|HAYIR|%61|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VADI|PATTERN_BREAK:0,59|EVET|2|HAYIR|%23|EVET|4|HAYIR|%15|EVET|2|HAYIR|%32|EVET|4|HAYIR|%26|EVET|2|HAYIR|%26|EVET|2|HAYIR|%23|EVET|2|HAYIR|%23|EVET|4|HAYIR|%23|EVET|2|HAYIR|%28|EVET|2|HAYIR|%19|EVET|2|HAYIR|%26|EVET|1|HAYIR|%23|EVET|2|HAYIR|%30|EVET
102|2026-07-24 14:53:53|3|4/1|HAYIR|%47|%13|HAYIR|%33|4/1|HAYIR|%24|HAYIR|%28|4|HAYIR|%20|T|EVET|%62|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%23|EVET|4|HAYIR|%14|EVET|4|HAYIR|%31|EVET|4|HAYIR|%25|EVET|4|HAYIR|%25|EVET|4|HAYIR|%23|EVET|4|HAYIR|%23|EVET|1|HAYIR|%23|EVET|4|HAYIR|%27|EVET|4|HAYIR|%19|EVET|4|HAYIR|%25|EVET|2|EVET|%23|EVET|4|HAYIR|%29|EVET
103|2026-07-24 14:53:55|2|1/2|EVET|%48|%14|HAYIR|%33|4/1|HAYIR|%24|EVET|%29|4/1|HAYIR|%20|K•C|EVET|%62|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%22|EVET|2|HAYIR|%14|EVET|2|HAYIR|%31|EVET|1|EVET|%25|EVET|1|EVET|%25|EVET|4|HAYIR|%22|EVET|3|HAYIR|%22|EVET|2|HAYIR|%22|EVET|3|HAYIR|%27|EVET|1|EVET|%18|EVET|1|EVET|%25|EVET|2|HAYIR|%25|EVET|4|HAYIR|%29|EVET
104|2026-07-24 14:53:57|1|4/3|HAYIR|%47|%14|HAYIR|%32|1/3|EVET|%25|HAYIR|%29|1/3|EVET|%21|KT|EVET|%63|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PATTERN_BREAK:0,59|EVET|1|EVET|%22|EVET|2|HAYIR|%14|EVET|4|HAYIR|%30|EVET|1|EVET|%26|EVET|1|EVET|%26|EVET|1|EVET|%22|EVET|3|HAYIR|%22|EVET|1|EVET|%22|EVET|1|EVET|%26|EVET|1|EVET|%20|EVET|1|EVET|%26|EVET|2|HAYIR|%24|EVET|1|EVET|%28|EVET
105|2026-07-24 14:53:58|1|3/1|HAYIR|%46|%14|HAYIR|%32|1/3|HAYIR|%25|HAYIR|%28|3/1|HAYIR|%21|K|HAYIR|%62|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE||HAYIR|3|HAYIR|%24|EVET|1|HAYIR|%14|EVET|3|HAYIR|%30|EVET|3|HAYIR|%28|EVET|1|HAYIR|%28|EVET|1|HAYIR|%24|EVET|3|HAYIR|%22|EVET|1|HAYIR|%24|EVET|1|HAYIR|%28|EVET|1|HAYIR|%22|EVET|3|HAYIR|%28|EVET|2|HAYIR|%24|EVET|3|HAYIR|%30|EVET
106|2026-07-24 14:54:00|4|3/4|EVET|%47|%15|HAYIR|%31|4/2|HAYIR|%24|HAYIR|%28|4|HAYIR|%21|B•T|EVET|%63|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%23|EVET|1|HAYIR|%13|EVET|1|HAYIR|%29|EVET|3|EVET|%27|EVET|4|HAYIR|%27|EVET|4|HAYIR|%23|EVET|2|HAYIR|%21|EVET|2|HAYIR|%23|EVET|2|HAYIR|%27|EVET|4|HAYIR|%21|EVET|1|HAYIR|%27|EVET|2|HAYIR|%23|EVET|2|HAYIR|%29|EVET
107|2026-07-24 14:54:06|3|2/3|HAYIR|%48|%15|EVET|%32|4/2|HAYIR|%24|HAYIR|%27|4/2|HAYIR|%20|B•C|EVET|%63|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%23|EVET|1|HAYIR|%13|EVET|1|HAYIR|%28|EVET|3|EVET|%28|EVET|4|HAYIR|%26|EVET|4|HAYIR|%23|EVET|4|HAYIR|%21|EVET|1|HAYIR|%23|EVET|4|HAYIR|%26|EVET|4|HAYIR|%21|EVET|1|HAYIR|%26|EVET|2|HAYIR|%23|EVET|4|HAYIR|%28|EVET
108|2026-07-24 14:54:08|3|4/3|HAYIR|%49|%15|EVET|%33|4/3|HAYIR|%23|EVET|%28|3/4|EVET|%22|C|HAYIR|%62|VADI_YON|FRAGMENTARY_2|VADI>TEPE>VADI|PATTERN_BREAK:0,59|EVET|3|EVET|%22|EVET|1|HAYIR|%13|EVET|2|HAYIR|%28|EVET|4|HAYIR|%30|EVET|3|EVET|%26|EVET|3|EVET|%22|EVET|4|HAYIR|%20|EVET|3|EVET|%22|EVET|4|HAYIR|%26|EVET|4|HAYIR|%20|EVET|1|HAYIR|%26|EVET|1|HAYIR|%22|EVET|4|HAYIR|%28|EVET
109|2026-07-24 14:54:09|3|4/3|HAYIR|%48|%15|HAYIR|%33|4/3|HAYIR|%23|HAYIR|%28|4/3|HAYIR|%21|B•T|EVET|%63|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%24|EVET|2|HAYIR|%12|EVET|1|EVET|%27|EVET|4|HAYIR|%29|EVET|1|EVET|%27|EVET|4|HAYIR|%24|EVET|4|HAYIR|%20|EVET|3|HAYIR|%24|EVET|4|HAYIR|%25|EVET|4|HAYIR|%20|EVET|4|HAYIR|%25|EVET|1|EVET|%22|EVET|3|HAYIR|%27|EVET
110|2026-07-24 14:54:15|1|4/2|HAYIR|%49|%14|EVET|%34|2/1|EVET|%24|HAYIR|%27|2|EVET|%22|KC|EVET|%63|BLOK_TERS_TEKRAR|FRAGMENTARY_2|BLOK_DUZ>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|2|EVET|%23|EVET|2|EVET|%12|EVET|4|HAYIR|%29|EVET|4|HAYIR|%29|EVET|2|EVET|%29|EVET|2|EVET|%23|EVET|3|HAYIR|%20|EVET|3|HAYIR|%23|EVET|1|HAYIR|%25|EVET|2|EVET|%20|EVET|2|EVET|%25|EVET|1|HAYIR|%23|EVET|2|EVET|%27|EVET
111|2026-07-24 14:54:33|2|3/4|HAYIR|%50|%14|EVET|%35|3/2|HAYIR|%24|HAYIR|%27|3/2|HAYIR|%22|KT|HAYIR|%62|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|3|HAYIR|%25|EVET|2|HAYIR|%14|EVET|4|EVET|%28|EVET|4|EVET|%28|EVET|4|EVET|%30|EVET|4|EVET|%25|EVET|3|HAYIR|%19|EVET|3|HAYIR|%23|EVET|3|HAYIR|%25|EVET|4|EVET|%21|EVET|2|HAYIR|%26|EVET|1|HAYIR|%23|EVET|3|HAYIR|%28|EVET
112|2026-07-24 15:02:32|4|2/3|HAYIR|%50|%14|EVET|%36|2/1|HAYIR|%23|HAYIR|%26|2|HAYIR|%22|K|EVET|%63|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%24|EVET|3|EVET|%14|EVET|2|HAYIR|%29|EVET|1|HAYIR|%29|EVET|2|HAYIR|%31|EVET|2|HAYIR|%26|EVET|3|EVET|%19|EVET|3|EVET|%22|EVET|2|HAYIR|%24|EVET|2|HAYIR|%22|EVET|2|HAYIR|%26|EVET|1|HAYIR|%22|EVET|2|HAYIR|%28|EVET
113|2026-07-24 15:02:38|3|4/3|HAYIR|%50|%14|HAYIR|%35|4/3|HAYIR|%23|HAYIR|%26|4/2|HAYIR|%21|B•T|EVET|%64|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%24|EVET|3|HAYIR|%15|EVET|2|HAYIR|%29|EVET|2|HAYIR|%29|EVET|4|HAYIR|%31|EVET|4|HAYIR|%25|EVET|4|HAYIR|%20|EVET|3|HAYIR|%24|EVET|4|HAYIR|%24|EVET|4|HAYIR|%22|EVET|4|HAYIR|%25|EVET|1|EVET|%22|EVET|4|HAYIR|%27|EVET
114|2026-07-24 15:02:41|1|2/3|EVET|%50|%15|HAYIR|%35|2/1|EVET|%24|HAYIR|%26|2|EVET|%23|T|HAYIR|%63|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|2|EVET|%23|EVET|3|HAYIR|%15|EVET|2|EVET|%28|EVET|3|HAYIR|%28|EVET|2|EVET|%30|EVET|2|EVET|%25|EVET|2|EVET|%20|EVET|1|HAYIR|%23|EVET|1|HAYIR|%23|EVET|2|EVET|%22|EVET|2|EVET|%25|EVET|1|HAYIR|%23|EVET|2|EVET|%27|EVET
115|2026-07-24 15:02:44|2|3/4|HAYIR|%50|%15|HAYIR|%34|3/4|HAYIR|%24|HAYIR|%25|3/4|HAYIR|%22|B•T|HAYIR|%62|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>DONGU||HAYIR|3|HAYIR|%25|EVET|2|EVET|%15|EVET|4|HAYIR|%30|EVET|1|HAYIR|%28|EVET|3|HAYIR|%31|EVET|3|HAYIR|%26|EVET|3|HAYIR|%21|EVET|1|HAYIR|%23|EVET|3|HAYIR|%23|EVET|3|HAYIR|%23|EVET|4|HAYIR|%26|EVET|3|HAYIR|%23|EVET|3|HAYIR|%28|EVET
116|2026-07-24 15:02:46|2|3/1|HAYIR|%49|%14|HAYIR|%34|3/1|HAYIR|%23|HAYIR|%25|1/3|HAYIR|%22|T|EVET|%62|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI|PATTERN_BREAK:0,59|EVET|1|HAYIR|%24|EVET|2|EVET|%16|EVET|3|HAYIR|%29|EVET|3|HAYIR|%27|EVET|3|HAYIR|%31|EVET|3|HAYIR|%26|EVET|1|HAYIR|%21|EVET|3|HAYIR|%22|EVET|3|HAYIR|%22|EVET|3|HAYIR|%22|EVET|1|HAYIR|%26|EVET|2|EVET|%22|EVET|1|HAYIR|%27|EVET
117|2026-07-24 15:02:48|2|1/2|HAYIR|%48|%14|HAYIR|%33|1/2|HAYIR|%23|HAYIR|%25|1|HAYIR|%22|K|EVET|%63|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|1|HAYIR|%24|EVET|2|HAYIR|%17|EVET|4|EVET|%29|EVET|3|HAYIR|%27|EVET|1|HAYIR|%30|EVET|1|HAYIR|%25|EVET|1|HAYIR|%20|EVET|2|HAYIR|%22|EVET|2|HAYIR|%22|EVET|1|HAYIR|%22|EVET|1|HAYIR|%25|EVET|2|HAYIR|%24|EVET|1|HAYIR|%27|EVET
118|2026-07-24 15:03:05|4|1/2|HAYIR|%49|%14|EVET|%34|2/3|EVET|%24|HAYIR|%24|3/2|HAYIR|%21|K•T|EVET|%63|TEPE_YON|FRAGMENTARY_2|TEPE>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%23|EVET|1|HAYIR|%17|EVET|1|HAYIR|%30|EVET|3|HAYIR|%26|EVET|2|EVET|%30|EVET|2|EVET|%25|EVET|3|HAYIR|%20|EVET|2|EVET|%22|EVET|2|EVET|%22|EVET|1|HAYIR|%22|EVET|1|HAYIR|%25|EVET|2|EVET|%23|EVET|2|EVET|%26|EVET
119|2026-07-24 15:04:10|2|4/3|HAYIR|%48|%14|HAYIR|%34|4/3|HAYIR|%24|HAYIR|%24|4/3|HAYIR|%21|K•C|EVET|%64|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%23|EVET|2|EVET|%17|EVET|4|HAYIR|%29|EVET|3|HAYIR|%26|EVET|4|HAYIR|%31|EVET|4|HAYIR|%26|EVET|3|HAYIR|%20|EVET|2|EVET|%23|EVET|2|EVET|%23|EVET|4|HAYIR|%21|EVET|4|HAYIR|%25|EVET|2|EVET|%25|EVET|3|HAYIR|%28|EVET
120|2026-07-24 15:05:01|2|2/3|HAYIR|%49|%14|EVET|%35|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%21|K|HAYIR|%63|DONGU_TERS_YON|FRAGMENTARY_2|AZALIS>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET
121|2026-07-25 14:58:32|3|--|HAYIR|%48|%13|HAYIR|%34|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%62|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|BLOK_TERS>VADI>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET
122|2026-07-25 14:58:33|4|--|HAYIR|%47|%13|HAYIR|%34|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%61|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAY
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 123 ve sonrası)

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IR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
123|2026-07-25 14:58:35|3|2/3|HAYIR|%48|%13|EVET|%35|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%20|--|HAYIR|%60|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU||HAYIR|4|HAYIR|%0|EVET|3|EVET|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|EVET|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
124|2026-07-25 14:58:36|3|--|HAYIR|%48|%13|HAYIR|%34|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%60|DONGU_YON|FRAGMENTARY_2|TEPE>VADI>DONGU|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET
125|2026-07-25 14:58:38|2|--|HAYIR|%47|%13|HAYIR|%34|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%19|--|HAYIR|%59|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|2|HAYIR|%60|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%20|EVET|3|HAYIR|%20|EVET|4|EVET|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|EVET|%0|EVET
126|2026-07-25 14:58:42|4|--|HAYIR|%46|%12|HAYIR|%33|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%19|--|HAYIR|%58|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|3|HAYIR|%50|EVET|4|HAYIR|%16|EVET|2|HAYIR|%16|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%16|EVET|2|HAYIR|%16|EVET|2|HAYIR|%16|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%16|EVET
127|2026-07-25 14:58:45|1|--|HAYIR|%46|%12|HAYIR|%33|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%20|--|HAYIR|%57|TEPE_YON|MODERATE_PERIODIC_4|VADI>VADI>TEPE|PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|2|EVET|%42|EVET|2|EVET|%14|EVET|3|HAYIR|%14|EVET|2|EVET|%14|EVET|1|HAYIR|%14|EVET|2|EVET|%0|EVET|1|HAYIR|%14|EVET|1|HAYIR|%14|EVET|2|EVET|%14|EVET|2|EVET|%14|EVET|3|HAYIR|%0|EVET|1|HAYIR|%14|EVET
128|2026-07-25 14:58:47|2|3/2|HAYIR|%45|%12|HAYIR|%32|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%20|--|HAYIR|%56|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TEPE||HAYIR|3|HAYIR|%12|EVET|2|HAYIR|%50|EVET|3|HAYIR|%25|EVET|1|HAYIR|%12|EVET|3|HAYIR|%25|EVET|3|HAYIR|%12|EVET|4|EVET|%12|EVET|2|HAYIR|%12|EVET|4|EVET|%12|EVET|3|HAYIR|%25|EVET|3|HAYIR|%25|EVET|2|HAYIR|%0|EVET|3|HAYIR|%12|EVET
129|2026-07-25 14:58:50|4|2/1|HAYIR|%45|%12|HAYIR|%32|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%56|VADI_YON|FRAGMENTARY_2|TEPE>BLOK_DUZ>VADI|PATTERN_BREAK:0,59|EVET|2|HAYIR|%11|EVET|2|HAYIR|%44|EVET|3|EVET|%22|EVET|2|HAYIR|%11|EVET|2|HAYIR|%22|EVET|2|HAYIR|%11|EVET|3|EVET|%22|EVET|3|EVET|%11|EVET|2|HAYIR|%22|EVET|3|EVET|%22|EVET|3|EVET|%22|EVET|2|HAYIR|%0|EVET|2|HAYIR|%11|EVET
130|2026-07-25 14:58:50|3|--|HAYIR|%44|%12|HAYIR|%32|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%19|--|HAYIR|%55|VADI_YON|FRAGMENTARY_2|TEPE>DONGU>VADI|PATTERN_BREAK:0,59|EVET|1|HAYIR|%10|EVET|2|EVET|%40|EVET|1|HAYIR|%30|EVET|3|HAYIR|%10|EVET|1|HAYIR|%20|EVET|1|HAYIR|%10|EVET|4|HAYIR|%30|EVET|2|EVET|%20|EVET|4|HAYIR|%20|EVET|1|HAYIR|%30|EVET|1|HAYIR|%30|EVET|2|EVET|%0|EVET|4|HAYIR|%10|EVET
131|2026-07-25 14:58:53|2|--|HAYIR|%43|%12|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%19|--|HAYIR|%54|TEPE_YON|FRAGMENTARY_2|VADI>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|1|HAYIR|%9|EVET|2|EVET|%45|EVET|2|EVET|%27|EVET|1|HAYIR|%9|EVET|1|HAYIR|%18|EVET|1|HAYIR|%9|EVET|4|HAYIR|%27|EVET|2|EVET|%27|EVET|4|HAYIR|%18|EVET|1|HAYIR|%27|EVET|1|HAYIR|%27|EVET|3|HAYIR|%9|EVET|4|HAYIR|%9|EVET
132|2026-07-25 14:58:58|2|--|HAYIR|%43|%12|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%19|--|HAYIR|%54|TEPE_YON|FRAGMENTARY_2|VADI>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|1|HAYIR|%8|EVET|2|EVET|%50|EVET|1|HAYIR|%33|EVET|3|HAYIR|%8|EVET|2|EVET|%16|EVET|1|HAYIR|%8|EVET|3|HAYIR|%25|EVET|2|EVET|%33|EVET|4|HAYIR|%16|EVET|2|EVET|%25|EVET|1|HAYIR|%25|EVET|3|HAYIR|%8|EVET|1|HAYIR|%8|EVET
133|2026-07-25 14:58:59|2|2/3|HAYIR|%44|%11|EVET|%32|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%19|--|HAYIR|%53|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VADI|PATTERN_BREAK:0,59|EVET|1|HAYIR|%7|EVET|2|HAYIR|%53|EVET|4|HAYIR|%30|EVET|4|HAYIR|%7|EVET|1|HAYIR|%23|EVET|1|HAYIR|%7|EVET|4|HAYIR|%23|EVET|2|HAYIR|%38|EVET|4|HAYIR|%15|EVET|4|HAYIR|%30|EVET|1|HAYIR|%23|EVET|3|EVET|%7|EVET|2|HAYIR|%7|EVET
134|2026-07-25 14:59:01|3|3/2|HAYIR|%43|%11|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%18|--|HAYIR|%52|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE||HAYIR|2|HAYIR|%7|EVET|2|HAYIR|%50|EVET|3|HAYIR|%28|EVET|4|HAYIR|%7|EVET|2|HAYIR|%21|EVET|2|HAYIR|%7|EVET|2|HAYIR|%21|EVET|3|HAYIR|%35|EVET|4|HAYIR|%14|EVET|2|HAYIR|%28|EVET|2|HAYIR|%21|EVET|3|HAYIR|%14|EVET|2|HAYIR|%7|EVET
135|2026-07-25 14:59:03|1|2/3|EVET|%44|%12|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%19|--|HAYIR|%52|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|2|EVET|%6|EVET|2|EVET|%46|EVET|1|HAYIR|%26|EVET|4|HAYIR|%6|EVET|1|HAYIR|%20|EVET|2|EVET|%6|EVET|2|EVET|%20|EVET|2|EVET|%33|EVET|1|HAYIR|%13|EVET|2|EVET|%26|EVET|1|HAYIR|%20|EVET|2|EVET|%13|EVET|2|EVET|%6|EVET
136|2026-07-25 14:59:05|2|2/3|HAYIR|%43|%12|HAYIR|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%19|--|HAYIR|%51|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI||HAYIR|2|HAYIR|%12|EVET|2|HAYIR|%50|EVET|2|HAYIR|%25|EVET|1|EVET|%6|EVET|2|HAYIR|%18|EVET|2|HAYIR|%12|EVET|4|HAYIR|%25|EVET|2|HAYIR|%37|EVET|4|HAYIR|%12|EVET|2|HAYIR|%31|EVET|2|HAYIR|%18|EVET|2|HAYIR|%18|EVET|4|HAYIR|%12|EVET
137|2026-07-25 14:59:08|1|--|HAYIR|%43|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%19|--|HAYIR|%51|DONGU_TERS_YON|FRAGMENTARY_2|VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|1|HAYIR|%11|EVET|2|HAYIR|%47|EVET|3|HAYIR|%23|EVET|4|EVET|%11|EVET|1|HAYIR|%17|EVET|1|HAYIR|%11|EVET|2|HAYIR|%23|EVET|1|HAYIR|%35|EVET|1|HAYIR|%11|EVET|1|HAYIR|%29|EVET|1|HAYIR|%17|EVET|3|HAYIR|%17|EVET|1|HAYIR|%11|EVET
138|2026-07-25 14:59:08|4|--|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%19|--|HAYIR|%50|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|4|HAYIR|%11|EVET|2|HAYIR|%44|EVET|4|HAYIR|%22|EVET|4|HAYIR|%16|EVET|4|HAYIR|%16|EVET|4|HAYIR|%11|EVET|3|HAYIR|%22|EVET|3|HAYIR|%33|EVET|2|HAYIR|%11|EVET|4|HAYIR|%27|EVET|4|HAYIR|%16|EVET|2|HAYIR|%16|EVET|3|HAYIR|%11|EVET
139|2026-07-25 14:59:10|1|2/1|HAYIR|%43|%12|EVET|%31|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%18|--|HAYIR|%50|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%10|EVET|2|HAYIR|%42|EVET|1|EVET|%21|EVET|3|HAYIR|%15|EVET|2|HAYIR|%15|EVET|1|EVET|%10|EVET|2|HAYIR|%21|EVET|2|HAYIR|%31|EVET|1|EVET|%10|EVET|2|HAYIR|%26|EVET|1|EVET|%15|EVET|2|HAYIR|%15|EVET|1|EVET|%10|EVET
140|2026-07-25 14:59:11|1|--|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%18|--|HAYIR|%49|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%10|EVET|2|HAYIR|%40|EVET|3|HAYIR|%25|EVET|3|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%20|EVET|2|HAYIR|%30|EVET|1|EVET|%15|EVET|3|HAYIR|%25|EVET|3|HAYIR|%20|EVET|1|EVET|%15|EVET|3|HAYIR|%15|EVET
141|2026-07-25 14:59:12|1|--|HAYIR|%42|%11|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%18|--|HAYIR|%48|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|3|HAYIR|%9|EVET|2|HAYIR|%38|EVET|3|HAYIR|%23|EVET|3|HAYIR|%14|EVET|3|HAYIR|%14|EVET|3|HAYIR|%14|EVET|3|HAYIR|%19|EVET|1|HAYIR|%28|EVET|1|HAYIR|%19|EVET|3|HAYIR|%23|EVET|3|HAYIR|%19|EVET|2|HAYIR|%19|EVET|3|HAYIR|%14|EVET
142|2026-07-25 14:59:14|4|1/3|HAYIR|%43|%11|EVET|%31|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%19|--|HAYIR|%48|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>DONGU_TERS||HAYIR|3|EVET|%9|EVET|1|HAYIR|%36|EVET|3|EVET|%22|EVET|1|HAYIR|%13|EVET|3|EVET|%13|EVET|3|EVET|%13|EVET|3|EVET|%18|EVET|3|EVET|%27|EVET|2|HAYIR|%18|EVET|3|EVET|%22|EVET|3|EVET|%18|EVET|2|HAYIR|%18|EVET|3|EVET|%13|EVET
143|2026-07-25 14:59:16|3|--|HAYIR|%42|%11|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%20|--|HAYIR|%47|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PATTERN_BREAK:0,59|EVET|3|EVET|%13|EVET|1|HAYIR|%34|EVET|3|EVET|%26|EVET|3|EVET|%13|EVET|3|EVET|%17|EVET|3|EVET|%17|EVET|1|HAYIR|%21|EVET|1|HAYIR|%30|EVET|4|HAYIR|%17|EVET|3|EVET|%26|EVET|3|EVET|%21|EVET|2|HAYIR|%17|EVET|4|HAYIR|%17|EVET
144|2026-07-25 14:59:17|3|3/2|EVET|%43|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%21|--|HAYIR|%47|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PATTERN_BREAK:0,59|EVET|3|EVET|%16|EVET|1|HAYIR|%33|EVET|3|EVET|%29|EVET|4|HAYIR|%16|EVET|3|EVET|%20|EVET|3|EVET|%20|EVET|2|HAYIR|%20|EVET|3|EVET|%29|EVET|4|HAYIR|%16|EVET|3|EVET|%29|EVET|3|EVET|%25|EVET|3|EVET|%16|EVET|3|EVET|%16|EVET
145|2026-07-25 14:59:18|3|--|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%20|--|HAYIR|%46|VADI_YON|FRAGMENTARY_2|VADI>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|1|HAYIR|%20|EVET|2|HAYIR|%32|EVET|1|HAYIR|%32|EVET|4|EVET|%16|EVET|1|HAYIR|%24|EVET|1|HAYIR|%24|EVET|1|HAYIR|%20|EVET|3|HAYIR|%32|EVET|3|HAYIR|%16|EVET|1|HAYIR|%32|EVET|1|HAYIR|%28|EVET|3|HAYIR|%20|EVET|3|HAYIR|%20|EVET
146|2026-07-25 14:59:24|4|--|HAYIR|%42|%12|HAYIR|%29|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%20|--|HAYIR|%46|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%19|EVET|1|HAYIR|%30|EVET|2|EVET|%30|EVET|3|HAYIR|%19|EVET|4|HAYIR|%23|EVET|4|HAYIR|%23|EVET|3|HAYIR|%19|EVET|3|HAYIR|%30|EVET|2|EVET|%15|EVET|2|EVET|%30|EVET|2|EVET|%26|EVET|3|HAYIR|%19|EVET|2|EVET|%19|EVET
147|2026-07-25 14:59:26|2|3/2|HAYIR|%42|%12|EVET|%30|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%20|--|HAYIR|%45|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%18|EVET|2|EVET|%29|EVET|3|HAYIR|%33|EVET|2|EVET|%18|EVET|4|HAYIR|%22|EVET|4|HAYIR|%22|EVET|4|HAYIR|%18|EVET|2|EVET|%29|EVET|4|HAYIR|%18|EVET|3|HAYIR|%33|EVET|3|HAYIR|%29|EVET|3|HAYIR|%18|EVET|4|HAYIR|%22|EVET
148|2026-07-25 14:59:29|2|2|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%45|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE||HAYIR|2|HAYIR|%17|EVET|1|HAYIR|%32|EVET|2|HAYIR|%32|EVET|2|HAYIR|%21|EVET|2|HAYIR|%21|EVET|2|HAYIR|%21|EVET|3|EVET|%17|EVET|2|HAYIR|%32|EVET|2|HAYIR|%17|EVET|2|HAYIR|%32|EVET|3|EVET|%28|EVET|2|HAYIR|%17|EVET|2|HAYIR|%21|EVET
149|2026-07-25 14:59:33|3|2/1|HAYIR|%42|%12|HAYIR|%30|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%20|--|HAYIR|%45|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VADI||HAYIR|4|HAYIR|%17|EVET|2|HAYIR|%31|EVET|4|HAYIR|%31|EVET|2|HAYIR|%20|EVET|4|HAYIR|%20|EVET|4|HAYIR|%20|EVET|1|HAYIR|%20|EVET|3|EVET|%31|EVET|4|HAYIR|%17|EVET|4|HAYIR|%31|EVET|1|HAYIR|%31|EVET|2|HAYIR|%17|EVET|1|HAYIR|%20|EVET
150|2026-07-25 14:59:36|3|3/2|HAYIR|%41|%11|HAYIR|%29|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%19|--|HAYIR|%44|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|3|HAYIR|%16|EVET|3|HAYIR|%30|EVET|3|HAYIR|%30|EVET|4|HAYIR|%20|EVET|4|HAYIR|%20|EVET|4|HAYIR|%20|EVET|2|HAYIR|%20|EVET|3|HAYIR|%33|EVET|3|HAYIR|%16|EVET|3|HAYIR|%30|EVET|4|HAYIR|%30|EVET|3|HAYIR|%16|EVET|3|HAYIR|%20|EVET
151|2026-07-25 14:59:39|1|2/1|EVET|%42|%12|HAYIR|%29|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%20|--|HAYIR|%44|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PATTERN_BREAK:0,59|EVET|2|EVET|%16|EVET|2|EVET|%29|EVET|2|EVET|%29|EVET|3|HAYIR|%19|EVET|2|EVET|%19|EVET|2|EVET|%19|EVET|2|EVET|%19|EVET|2|EVET|%32|EVET|1|HAYIR|%16|EVET|2|EVET|%29|EVET|2|EVET|%29|EVET|3|HAYIR|%16|EVET|2|EVET|%19|EVET
152|2026-07-25 15:00:31|2|2/3|HAYIR|%41|%12|HAYIR|%29|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%21|--|HAYIR|%43|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>TEPE||HAYIR|4|EVET|%18|EVET|3|HAYIR|%31|EVET|4|EVET|%31|EVET|3|HAYIR|%18|EVET|4|EVET|%21|EVET|4|EVET|%21|EVET|4|EVET|%21|EVET|2|HAYIR|%34|EVET|2|HAYIR|%15|EVET|4|EVET|%31|EVET|2|HAYIR|%31|EVET|2|HAYIR|%15|EVET|4|EVET|%21|EVET
153|2026-07-25 15:01:43|4|3/2|HAYIR|%41|%12|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%21|--|HAYIR|%43|VADI_YON|FRAGMENTARY_2|DONGU_TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|3|HAYIR|%21|EVET|2|HAYIR|%30|EVET|3|HAYIR|%33|EVET|2|HAYIR|%18|EVET|2|HAYIR|%24|EVET|3|HAYIR|%24|EVET|3|HAYIR|%24|EVET|3|HAYIR|%33|EVET|2|HAYIR|%15|EVET|3|HAYIR|%33|EVET|3|HAYIR|%30|EVET|2|HAYIR|%15|EVET|2|HAYIR|%24|EVET
154|2026-07-25 15:02:39|1|2/1|HAYIR|%40|%12|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%42|TEPE_YON|FRAGMENTARY_2|ARTIS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%20|EVET|3|HAYIR|%29|EVET|2|HAYIR|%32|EVET|3|HAYIR|%17|EVET|2|HAYIR|%23|EVET|2|HAYIR|%23|EVET|2|HAYIR|%23|EVET
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 155 ve sonrası)

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↳ |2|HAYIR|%32|EVET|1|HAYIR|%14|EVET|2|HAYIR|%32|EVET|2|HAYIR|%29|EVET|2|HAYIR|%14|EVET|1|HAYIR|%23|EVET
156 155|2026-07-25 15:03:42|4|--|HAYIR|%40|%12|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%21|--|HAYIR|%42|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|TEPE>TEPE>BL
↳ OK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|3|EVET|%20|EVET|1|HAYIR|%28|EVET|1|HAYIR|%31|EVET|1|HAYIR|%17|EVET|3|EVET|%22|EVET|3|EVET|%2
↳ 2|EVET|3|EVET|%22|EVET|3|EVET|%31|EVET|2|HAYIR|%14|EVET|3|EVET|%31|EVET|1|HAYIR|%28|EVET|2|HAYIR|%14|EVET|3|EVET|%22|EVET
157 156|2026-07-25 15:04:55|3|3/1|HAYIR|%41|%12|EVET|%28|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%21|--|HAYIR|%42|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|REG
↳ IME_SHIFT:0,50|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|
↳ EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET
158 157|2026-07-26 01:38:22|1|2/1|HAYIR|%40|%12|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%21|--|HAYIR|%41|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VA
↳ DI|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|
↳ HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
159 158|2026-07-26 01:38:23|4|3/1|HAYIR|%40|%11|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%21|--|HAYIR|%41|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU_TE
↳ RS>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EV
↳ ET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET
160 159|2026-07-26 01:38:24|4|--|HAYIR|%40|%11|HAYIR|%28|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%40|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|3|EVET|%0
↳ |EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET
161 160|2026-07-26 01:38:27|3|--|HAYIR|%39|%11|HAYIR|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%20|--|HAYIR|%40|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PAT
↳ TERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%
↳ 0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET
162 161|2026-07-26 01:38:29|2|--|HAYIR|%39|%11|HAYIR|%27|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%20|--|HAYIR|%40|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>VADI>TEP
↳ E|PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%20|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%40|EVET|4
↳ |HAYIR|%40|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
163 162|2026-07-26 01:38:30|3|--|HAYIR|%38|%11|HAYIR|%27|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%20|--|HAYIR|%39|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>VADI
↳ |PATTERN_BREAK:0,59|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%16|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%33|EVET|3|
↳ HAYIR|%33|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET
164 163|2026-07-26 01:38:31|2|--|HAYIR|%38|%11|HAYIR|%27|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%20|--|HAYIR|%39|VADI_YON|FRAGMENTARY_2|TEPE>BLOK_DUZ>VADI
↳ |PATTERN_BREAK:0,59|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%14|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%28|EVET|2|E
↳ VET|%28|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|EVET|%0|EVET|4|HAYIR|%0|EVET
165 164|2026-07-26 01:38:33|2|--|HAYIR|%38|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%39|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%12|EVET|2|HAYIR|%0|EVET|3|HAYIR|%12|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%25|EVET|2|HAY
↳ IR|%37|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%12|EVET|3|HAYIR|%0|EVET
166 165|2026-07-26 01:38:34|4|--|HAYIR|%37|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%19|--|HAYIR|%38|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI|PAT
↳ TERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%11|EVET|1|EVET|%0|EVET|3|HAYIR|%11|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%22|EVET|3|HAYI
↳ R|%33|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%11|EVET|2|HAYIR|%0|EVET
167 166|2026-07-26 01:38:37|1|2/1|EVET|%38|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%20|--|HAYIR|%38|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE
↳ >DONGU_TERS||HAYIR|2|EVET|%0|EVET|1|HAYIR|%10|EVET|2|EVET|%10|EVET|3|HAYIR|%10|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%20|EVET|2|EVET|%30|
↳ EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|2|EVET|%10|EVET|1|HAYIR|%0|EVET
168 167|2026-07-26 01:38:37|2|--|HAYIR|%38|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%21|--|HAYIR|%38|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PATT
↳ ERN_BREAK:0,59|EVET|4|EVET|%9|EVET|2|HAYIR|%9|EVET|4|EVET|%18|EVET|1|HAYIR|%9|EVET|3|HAYIR|%9|EVET|4|EVET|%9|EVET|4|EVET|%27|EVET|2|HAYIR|%36
↳ |EVET|4|EVET|%0|EVET|4|EVET|%9|EVET|4|EVET|%9|EVET|3|HAYIR|%18|EVET|4|EVET|%0|EVET
169 168|2026-07-26 01:38:39|4|3/2|HAYIR|%37|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%21|--|HAYIR|%37|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI||H
↳ AYIR|3|HAYIR|%16|EVET|2|HAYIR|%8|EVET|3|HAYIR|%25|EVET|2|HAYIR|%8|EVET|3|HAYIR|%8|EVET|3|HAYIR|%16|EVET|3|HAYIR|%33|EVET|3|HAYIR|%33|EVET|2|H
↳ AYIR|%8|EVET|3|HAYIR|%16|EVET|3|HAYIR|%16|EVET|3|HAYIR|%16|EVET|1|EVET|%8|EVET
170 169|2026-07-26 01:38:42|1|2/1|HAYIR|%38|%11|EVET|%26|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%20|--|HAYIR|%37|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU||
↳ HAYIR|2|HAYIR|%15|EVET|2|HAYIR|%7|EVET|4|HAYIR|%23|EVET|3|HAYIR|%7|EVET|4|HAYIR|%7|EVET|4|HAYIR|%15|EVET|2|HAYIR|%30|EVET|2|HAYIR|%30|EVET|1|
↳ EVET|%7|EVET|4|HAYIR|%15|EVET|2|HAYIR|%15|EVET|3|HAYIR|%15|EVET|1|EVET|%15|EVET
171 170|2026-07-26 01:38:43|1|--|HAYIR|%38|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%21|--|HAYIR|%37|DONGU_TERS_YON|FRAGMENTARY_2|TEPE>VADI>DON
↳ GU_TERS|PATTERN_BREAK:0,59|EVET|3|EVET|%14|EVET|2|HAYIR|%7|EVET|1|HAYIR|%21|EVET|3|EVET|%7|EVET|3|EVET|%7|EVET|3|EVET|%14|EVET|3|EVET|%28|EVE
↳ T|2|HAYIR|%28|EVET|1|HAYIR|%14|EVET|3|EVET|%14|EVET|3|EVET|%14|EVET|3|EVET|%14|EVET|3|EVET|%21|EVET
172 171|2026-07-26 01:38:46|3|--|HAYIR|%37|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%21|--|HAYIR|%36|DONGU_TERS_YON|FRAGMENTARY_2|DONGU_TERS>V
↳ ADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|4|HAYIR|%20|EVET|2|HAYIR|%6|EVET|4|HAYIR|%20|EVET|2|HAYIR|%13|EVET|3|HAYIR|%13|EVET|3|HAYIR|%20|EVET|2
↳ |HAYIR|%33|EVET|3|HAYIR|%26|EVET|2|HAYIR|%13|EVET|4|HAYIR|%20|EVET|4|HAYIR|%20|EVET|2|HAYIR|%20|EVET|4|HAYIR|%26|EVET
173 172|2026-07-26 01:38:47|1|2/1|HAYIR|%37|%11|HAYIR|%26|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%21|--|HAYIR|%36|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|
↳ PATTERN_BREAK:0,59|EVET|2|HAYIR|%18|EVET|2|HAYIR|%6|EVET|3|EVET|%18|EVET|4|HAYIR|%12|EVET|3|EVET|%12|EVET|3|EVET|%18|EVET|2|HAYIR|%31|EVET|2|
↳ HAYIR|%25|EVET|1|HAYIR|%12|EVET|3|EVET|%18|EVET|3|EVET|%18|EVET|2|HAYIR|%18|EVET|2|HAYIR|%25|EVET
174 173|2026-07-26 01:38:48|3|--|HAYIR|%37|%11|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|HAYIR|%36|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PAT
↳ TERN_BREAK:0,59|EVET|4|HAYIR|%17|EVET|2|EVET|%5|EVET|4|HAYIR|%23|EVET|2|EVET|%11|EVET|4|HAYIR|%17|EVET|4|HAYIR|%23|EVET|1|HAYIR|%29|EVET|1|HA
↳ YIR|%23|EVET|1|HAYIR|%11|EVET|4|HAYIR|%23|EVET|4|HAYIR|%23|EVET|3|HAYIR|%17|EVET|4|HAYIR|%23|EVET
175 174|2026-07-26 01:38:51|2|--|HAYIR|%36|%11|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%20|--|HAYIR|%36|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TE
↳ PE|PATTERN_BREAK:0,59|EVET|4|HAYIR|%16|EVET|2|HAYIR|%11|EVET|1|HAYIR|%22|EVET|2|HAYIR|%16|EVET|1|HAYIR|%16|EVET|1|HAYIR|%22|EVET|4|HAYIR|%27|
↳ EVET|1|HAYIR|%22|EVET|4|HAYIR|%11|EVET|1|HAYIR|%22|EVET|1|HAYIR|%22|EVET|2|HAYIR|%16|EVET|4|HAYIR|%22|EVET
176 175|2026-07-26 01:38:52|3|--|HAYIR|%36|%11|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%35|DONGU_YON|FRAGMENTARY_2|VADI>VADI>DONGU|P
↳ ATTERN_BREAK:0,59|EVET|2|HAYIR|%15|EVET|3|HAYIR|%10|EVET|3|HAYIR|%21|EVET|2|HAYIR|%15|EVET|2|HAYIR|%15|EVET|2|HAYIR|%21|EVET|2|HAYIR|%26|EVET
↳ |3|HAYIR|%21|EVET|2|HAYIR|%10|EVET|2|HAYIR|%21|EVET|2|HAYIR|%21|EVET|3|HAYIR|%15|EVET|2|HAYIR|%21|EVET
177 176|2026-07-26 01:38:55|1|2/1|HAYIR|%36|%11|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%35|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE|PA
↳ TTERN_BREAK:0,59|EVET|2|HAYIR|%15|EVET|2|HAYIR|%10|EVET|2|HAYIR|%20|EVET|1|HAYIR|%15|EVET|2|HAYIR|%15|EVET|2|HAYIR|%20|EVET|2|HAYIR|%25|EVET|
↳ 2|HAYIR|%20|EVET|1|HAYIR|%10|EVET|2|HAYIR|%20|EVET|2|HAYIR|%20|EVET|2|HAYIR|%15|EVET|2|HAYIR|%20|EVET
178 177|2026-07-26 01:38:57|4|--|HAYIR|%35|%10|HAYIR|%25|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|HAYIR|%35|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>D
↳ ONGU|PATTERN_BREAK:0,59|EVET|4|HAYIR|%14|EVET|2|EVET|%9|EVET|4|HAYIR|%19|EVET|1|HAYIR|%14|EVET|4|HAYIR|%14|EVET|4|HAYIR|%19|EVET|1|HAYIR|%23|
↳ EVET|1|HAYIR|%19|EVET|2|EVET|%9|EVET|4|HAYIR|%19|EVET|4|HAYIR|%19|EVET|2|EVET|%14|EVET|3|HAYIR|%19|EVET
179 178|2026-07-26 01:38:58|2|--|HAYIR|%35|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%20|--|HAYIR|%34|DONGU_YON|FRAGMENTARY_2|VADI>DONGU_TERS>DO
↳ NGU|PATTERN_BREAK:0,59|EVET|2|EVET|%13|EVET|3|HAYIR|%13|EVET|1|HAYIR|%18|EVET|1|HAYIR|%13|EVET|2|EVET|%13|EVET|2|EVET|%18|EVET|4|HAYIR|%22|EV
↳ ET|2|EVET|%18|EVET|4|HAYIR|%13|EVET|2|EVET|%18|EVET|1|HAYIR|%18|EVET|2|EVET|%18|EVET|2|EVET|%18|EVET
180 179|2026-07-26 01:38:59|2|3/2|HAYIR|%35|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%20|--|HAYIR|%34|TEPE_YON|FRAGMENTARY_2|DONGU>DONGU_TERS>
↳ TEPE||HAYIR|3|HAYIR|%17|EVET|2|HAYIR|%13|EVET|3|HAYIR|%17|EVET|2|HAYIR|%13|EVET|3|HAYIR|%17|EVET|3|HAYIR|%21|EVET|3|HAYIR|%21|EVET|3|HAYIR|%2
↳ 1|EVET|4|EVET|%13|EVET|3|HAYIR|%21|EVET|3|HAYIR|%17|EVET|2|HAYIR|%21|EVET|3|HAYIR|%21|EVET
181 180|2026-07-26 01:39:01|4|1/2|HAYIR|%35|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%20|--|HAYIR|%34|DONGU_TERS_YON|FRAGMENTARY_2|TEPE>DONGU>
↳ DONGU_TERS||HAYIR|1|HAYIR|%16|EVET|2|HAYIR|%12|EVET|1|HAYIR|%16|EVET|3|EVET|%12|EVET|2|HAYIR|%16|EVET|1|HAYIR|%20|EVET|1|HAYIR|%20|EVET|3|EVE
↳ T|%20|EVET|2|HAYIR|%16|EVET|1|HAYIR|%20|EVET|1|HAYIR|%16|EVET|3|EVET|%20|EVET|1|HAYIR|%20|EVET
182 181|2026-07-26 01:39:09|3|--|HAYIR|%34|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%20|--|HAYIR|%34|DONGU_TERS_YON|FRAGMENTARY_2|VADI>TEPE>DO
↳ NGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%16|EVET|3|EVET|%12|EVET|4|HAYIR|%16|EVET|2|HAYIR|%16|EVET|2|HAYIR|%16|EVET|1|HAYIR|%20|EVET|1|HAYIR
↳ |%20|EVET|2|HAYIR|%24|EVET|1|HAYIR|%16|EVET|2|HAYIR|%20|EVET|2|HAYIR|%16|EVET|3|EVET|%24|EVET|1|HAYIR|%20|EVET
183 182|2026-07-26 01:39:11|3|3/1|HAYIR|%34|%10|HAYIR|%24|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%33|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PA
↳ TTERN_BREAK:0,59|EVET|3|HAYIR|%15|EVET|2|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%15|EVET|3|HAYIR|%19|EVET|1|HAYIR|%19|EVET|
↳ 3|HAYIR|%23|EVET|1|HAYIR|%15|EVET|3|HAYIR|%19|EVET|3|HAYIR|%15|EVET|3|HAYIR|%26|EVET|3|HAYIR|%19|EVET
184 183|2026-07-26 01:39:14|4|--|HAYIR|%34|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%33|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU|
↳ PATTERN_BREAK:0,59|EVET|2|HAYIR|%14|EVET|3|HAYIR|%14|EVET|2|HAYIR|%14|EVET|3|HAYIR|%14|EVET|2|HAYIR|%14|EVET|2|HAYIR|%18|EVET|3|HAYIR|%18|EVE
↳ T|3|HAYIR|%22|EVET|2|HAYIR|%14|EVET|2|HAYIR|%18|EVET|2|HAYIR|%14|EVET|3|HAYIR|%25|EVET|2|HAYIR|%18|EVET
185 184|2026-07-26 01:39:15|4|--|HAYIR|%34|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|HAYIR|%33|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|P
↳ ATTERN_BREAK:0,59|EVET|4|HAYIR|%14|EVET|3|EVET|%14|EVET|2|HAYIR|%14|EVET|2|HAYIR|%14|EVET|4|HAYIR|%14|EVET|4|HAYIR|%17|EVET|3|EVET|%17|EVET|3
↳ |EVET|%21|EVET|2|HAYIR|%14|EVET|3|EVET|%17|EVET|4|HAYIR|%14|EVET|2|HAYIR|%25|EVET|3|EVET|%17|EVET
186 185|2026-07-26 01:39:17|3|3/2|HAYIR|%33|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%19|--|HAYIR|%33|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU
↳ ||HAYIR|2|HAYIR|%13|EVET|3|HAYIR|%17|EVET|1|EVET|%13|EVET|2|HAYIR|%13|EVET|1|EVET|%13|EVET|1|EVET|%17|EVET|1|EVET|%20|EVET|3|HAYIR|%24|EVET|1
↳ |EVET|%13|EVET|1|EVET|%20|EVET|2|HAYIR|%13|EVET|3|HAYIR|%24|EVET|3|HAYIR|%20|EVET
187 186|2026-07-26 01:39:20|1|2/4|HAYIR|%33|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%19|--|HAYIR|%32|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU
↳ |PATTERN_BREAK:0,59|EVET|2|HAYIR|%13|EVET|3|HAYIR|%16|EVET|2|HAYIR|%16|EVET|2|HAYIR|%13|EVET|2|HAYIR|%16|EVET|2|HAYIR|%20|EVET|2|HAYIR|%23|EV
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 187 ve sonrası)

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ET|2|HAYIR|%23|EVET|1|EVET|%16|EVET|2|HAYIR|%23|EVET|2|HAYIR|%13|EVET|3|HAYIR|%23|EVET|2|HAYIR|%20|EVET
187|2026-07-26 01:39:24|1|--|HAYIR|%33|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%20|--|HAYIR|%32|DONGU_YON|FRAGMENTARY_2|VADI>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET
188|2026-07-26 02:22:25|1|--|HAYIR|%33|%10|HAYIR|%23|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%32|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET
189|2026-07-26 02:22:25|2|--|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%20|--|HAYIR|%32|TEPE_YON|FRAGMENTARY_2|DONGU>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET
190|2026-07-26 02:22:27|1|--|HAYIR|%32|%9|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%20|--|HAYIR|%31|VADI_YON|FRAGMENTARY_2|DONGU>VADI>VADI|PATTERN_BREAK:0,59|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|EVET|%0|EVET|4|EVET|%0|EVET|2|HAYIR|%0|EVET|1|HAYIR|%0|EVET
191|2026-07-26 02:22:29|4|3/1|HAYIR|%32|%9|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%31|VADI_YON|FRAGMENTARY_2|DONGU>DONGU>VADI||HAYIR|3|HAYIR|%0|EVET|2|EVET|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET
192|2026-07-26 02:22:33|2|2/1|HAYIR|%32|%9|EVET|%23|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%20|--|HAYIR|%31|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>DONGU>TEPE||HAYIR|2|HAYIR|%40|EVET|3|HAYIR|%20|EVET|2|HAYIR|%0|EVET|1|EVET|%20|EVET|2|HAYIR|%40|EVET|2|HAYIR|%40|EVET|4|HAYIR|%0|EVET|2|HAYIR|%20|EVET|4|HAYIR|%20|EVET|2|HAYIR|%40|EVET|2|HAYIR|%40|EVET|2|HAYIR|%20|EVET|2|HAYIR|%0|EVET
193|2026-07-26 02:22:33|1|1/4|EVET|%33|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%20|--|HAYIR|%31|TEPE_YON|FRAGMENTARY_2|VADI>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|1|EVET|%33|EVET|3|HAYIR|%16|EVET|1|EVET|%0|EVET|1|EVET|%33|EVET|1|EVET|%33|EVET|1|EVET|%33|EVET|2|HAYIR|%0|EVET|1|EVET|%16|EVET|1|EVET|%16|EVET|1|EVET|%33|EVET|1|EVET|%33|EVET|2|HAYIR|%16|EVET|1|EVET|%0|EVET
194|2026-07-26 02:22:34|1|--|HAYIR|%33|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%20|--|HAYIR|%31|TEPE_YON|FRAGMENTARY_2|DONGU>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%42|EVET|3|HAYIR|%14|EVET|1|EVET|%14|EVET|1|EVET|%42|EVET|3|HAYIR|%42|EVET|3|HAYIR|%42|EVET|3|HAYIR|%0|EVET|1|EVET|%28|EVET|1|EVET|%28|EVET|3|HAYIR|%42|EVET|3|HAYIR|%42|EVET|1|EVET|%14|EVET|1|EVET|%14|EVET
195|2026-07-26 02:22:35|1|--|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%21|--|HAYIR|%30|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|3|EVET|%37|EVET|1|HAYIR|%12|EVET|2|HAYIR|%25|EVET|1|HAYIR|%50|EVET|3|EVET|%37|EVET|3|EVET|%37|EVET|2|HAYIR|%0|EVET|1|HAYIR|%37|EVET|1|HAYIR|%37|EVET|3|EVET|%37|EVET|3|EVET|%37|EVET|1|HAYIR|%25|EVET|1|HAYIR|%25|EVET
196|2026-07-26 02:22:38|3|--|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%21|--|HAYIR|%30|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_2>TEPE>VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%44|EVET|2|HAYIR|%11|EVET|4|HAYIR|%22|EVET|1|HAYIR|%44|EVET|4|HAYIR|%44|EVET|4|HAYIR|%44|EVET|1|HAYIR|%0|EVET|1|HAYIR|%33|EVET|1|HAYIR|%33|EVET|4|HAYIR|%44|EVET|4|HAYIR|%44|EVET|1|HAYIR|%22|EVET|4|HAYIR|%22|EVET
197|2026-07-26 02:22:38|3|3/1|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%20|--|HAYIR|%30|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|3|HAYIR|%40|EVET|3|HAYIR|%10|EVET|3|HAYIR|%20|EVET|2|EVET|%40|EVET|3|HAYIR|%40|EVET|3|HAYIR|%40|EVET|4|HAYIR|%0|EVET|3|HAYIR|%30|EVET|1|HAYIR|%30|EVET|3|HAYIR|%40|EVET|3|HAYIR|%40|EVET|1|HAYIR|%20|EVET|3|HAYIR|%20|EVET
198|2026-07-26 02:22:41|2|--|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|HAYIR|%30|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|4|HAYIR|%36|EVET|2|HAYIR|%9|EVET|4|HAYIR|%18|EVET|1|HAYIR|%45|EVET|4|HAYIR|%36|EVET|4|HAYIR|%36|EVET|4|HAYIR|%0|EVET|2|HAYIR|%27|EVET|4|HAYIR|%27|EVET|4|HAYIR|%36|EVET|4|HAYIR|%36|EVET|1|HAYIR|%18|EVET|4|HAYIR|%18|EVET
199|2026-07-26 02:22:41|3|1/2|HAYIR|%32|%10|HAYIR|%22|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%20|--|HAYIR|%30|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>VADI>VADI||HAYIR|1|HAYIR|%33|EVET|3|HAYIR|%8|EVET|1|HAYIR|%16|EVET|2|HAYIR|%41|EVET|1|HAYIR|%33|EVET|1|HAYIR|%33|EVET|1|HAYIR|%0|EVET|3|HAYIR|%25|EVET|1|HAYIR|%25|EVET|1|HAYIR|%33|EVET|1|HAYIR|%33|EVET|1|HAYIR|%16|EVET|1|HAYIR|%16|EVET
200|2026-07-26 02:22:45|4|--|HAYIR|%31|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%29|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|BLOK_DUZ>TEPE>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|2|HAYIR|%30|EVET|3|HAYIR|%7|EVET|3|HAYIR|%15|EVET|2|HAYIR|%38|EVET|1|HAYIR|%30|EVET|1|HAYIR|%30|EVET|3|HAYIR|%0|EVET|3|HAYIR|%23|EVET|2|HAYIR|%23|EVET|3|HAYIR|%30|EVET|3|HAYIR|%30|EVET|1|HAYIR|%15|EVET|2|HAYIR|%15|EVET
201|2026-07-26 02:22:46|4|3/2|HAYIR|%31|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%20|--|HAYIR|%29|TEPE_YON|FRAGMENTARY_2|DALGA_TEK_SIM_1>TEPE>TEPE|REGIME_SHIFT:0,50|EVET|3|HAYIR|%28|EVET|3|HAYIR|%7|EVET|3|HAYIR|%14|EVET|2|HAYIR|%35|EVET|3|HAYIR|%28|EVET|3|HAYIR|%28|EVET|3|HAYIR|%0|EVET|3|HAYIR|%21|EVET|2|HAYIR|%21|EVET|3|HAYIR|%28|EVET|3|HAYIR|%28|EVET|3|HAYIR|%14|EVET|3|HAYIR|%14|EVET
202|2026-07-26 02:22:47|4|--|HAYIR|%31|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%29|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%26|EVET|3|EVET|%6|EVET|2|HAYIR|%13|EVET|3|EVET|%33|EVET|2|HAYIR|%26|EVET|2|HAYIR|%26|EVET|2|HAYIR|%0|EVET|3|EVET|%20|EVET|2|HAYIR|%20|EVET|2|HAYIR|%26|EVET|2|HAYIR|%26|EVET|3|EVET|%13|EVET|3|EVET|%13|EVET
203|2026-07-26 02:22:49|3|1/3|HAYIR|%31|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%20|--|HAYIR|%29|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI||HAYIR|1|HAYIR|%25|EVET|3|HAYIR|%12|EVET|1|HAYIR|%12|EVET|4|EVET|%37|EVET|1|HAYIR|%25|EVET|1|HAYIR|%25|EVET|1|HAYIR|%0|EVET|3|HAYIR|%25|EVET|1|HAYIR|%18|EVET|1|HAYIR|%25|EVET|1|HAYIR|%25|EVET|3|HAYIR|%18|EVET|1|HAYIR|%18|EVET
204|2026-07-26 02:22:51|4|--|HAYIR|%30|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%20|--|HAYIR|%29|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|2|EVET|%23|EVET|3|HAYIR|%11|EVET|1|HAYIR|%11|EVET|3|HAYIR|%41|EVET|2|EVET|%23|EVET|2|EVET|%23|EVET|3|HAYIR|%0|EVET|4|HAYIR|%23|EVET|3|HAYIR|%17|EVET|2|EVET|%23|EVET|2|EVET|%23|EVET|3|HAYIR|%17|EVET|2|EVET|%17|EVET
205|2026-07-26 02:23:36|2|--|HAYIR|%30|%9|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%20|--|HAYIR|%28|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|2|HAYIR|%27|EVET|3|HAYIR|%11|EVET|1|EVET|%11|EVET|3|HAYIR|%38|EVET|3|HAYIR|%27|EVET|3|HAYIR|%27|EVET|4|HAYIR|%0|EVET|1|EVET|%22|EVET|4|HAYIR|%16|EVET|3|HAYIR|%27|EVET|2|HAYIR|%27|EVET|3|HAYIR|%16|EVET|2|HAYIR|%22|EVET
206|2026-07-26 02:24:56|1|1/4|EVET|%31|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%21|--|HAYIR|%28|TEPE_YON|FRAGMENTARY_2|TEPE>VADI>TEPE||HAYIR|1|EVET|%26|EVET|3|HAYIR|%10|EVET|1|EVET|%15|EVET|1|EVET|%36|EVET|1|EVET|%26|EVET|1|EVET|%26|EVET|2|HAYIR|%0|EVET|1|EVET|%26|EVET|1|EVET|%15|EVET|1|EVET|%26|EVET|1|EVET|%26|EVET|3|HAYIR|%15|EVET|1|EVET|%21|EVET
207|2026-07-26 02:26:31|1|1/3|HAYIR|%31|%10|EVET|%21|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%20|--|HAYIR|%28|VADI_YON|FRAGMENTARY_2|ARTIS>VADI>VADI||HAYIR|1|HAYIR|%30|EVET|3|EVET|%10|EVET|1|HAYIR|%20|EVET|1|HAYIR|%40|EVET|1|HAYIR|%30|EVET|1|HAYIR|%30|EVET|3|EVET|%0|EVET|1|HAYIR|%30|EVET|1|HAYIR|%20|EVET|1|HAYIR|%30|EVET|1|HAYIR|%30|EVET|1|HAYIR|%15|EVET|1|HAYIR|%25|EVET
208|2026-07-26 02:27:50|3|4/3|EVET|%32|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%20|--|EVET|%28|VADI_YON|FRAGMENTARY_2|TEPE>BLOK_DUZ>VADI||HAYIR|4|HAYIR|%0|EVET|2|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|EVET|%0|EVET|4|HAYIR|%0|EVET
209|2026-07-26 02:50:09|1|--|HAYIR|%31|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%20|T•K|EVET|%29|BLOK_TERS_TEKRAR|FRAGMENTARY_2|TEPE>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|HAYIR|%0|EVET|1|EVET|%0|EVET|1|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|1|EVET|%0|EVET|2|HAYIR|%0|EVET
210|2026-07-26 02:50:09|1|1/3|HAYIR|%32|%10|EVET|%21|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%20|C•K|HAYIR|%29|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE|REGIME_SHIFT:0,75|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|2|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|EVET|%0|EVET
211|2026-07-26 02:50:10|3|1/2|HAYIR|%32|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%20|T•K|EVET|%29|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>VADI>DONGU||HAYIR|3|EVET|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|1|HAYIR|%0|EVET|4|HAYIR|%0|EVET
212|2026-07-26 02:50:10|3|3/2|HAYIR|%32|%10|EVET|%22|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%21|T•B|HAYIR|%29|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>VADI|PATTERN_BREAK:0,59|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|3|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|2|EVET|%0|EVET|3|HAYIR|%0|EVET|1|HAYIR|%0|EVET|3|HAYIR|%0|EVET
213|2026-07-26 02:50:16|2|3/4|EVET|%32|%10|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%21|T•K|EVET|%29|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE||HAYIR|3|EVET|%40|EVET|3|EVET|%40|EVET|3|EVET|%20|EVET|1|HAYIR|%60|EVET|3|EVET|%0|EVET|3|EVET|%0|EVET|1|HAYIR|%60|EVET|1|HAYIR|%20|EVET|4|HAYIR|%40|EVET|3|EVET|%20|EVET|4|HAYIR|%0|EVET|1|HAYIR|%40|EVET|4|HAYIR|%20|EVET
214|2026-07-26 02:50:16|3|4/3|EVET|%33|%11|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%22|C•B|EVET|%30|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE||HAYIR|4|EVET|%50|EVET|3|HAYIR|%50|EVET|4|EVET|%33|EVET|3|HAYIR|%50|EVET|4|EVET|%16|EVET|4|EVET|%16|EVET|1|HAYIR|%50|EVET|1|HAYIR|%16|EVET|1|HAYIR|%33|EVET|4|EVET|%33|EVET|4|EVET|%0|EVET|3|HAYIR|%33|EVET|1|HAYIR|%16|EVET
215|2026-07-26 02:50:17|4|4|EVET|%33|%12|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%22|C•B|EVET|%30|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI||HAYIR|4|EVET|%57|EVET|3|HAYIR|%42|EVET|4|EVET|%42|EVET|2|HAYIR|%42|EVET|4|EVET|%28|EVET|4|EVET|%28|EVET|2|HAYIR|%42|EVET|3|HAYIR|%14|EVET|3|HAYIR|%28|EVET|4|EVET|%42|EVET|4|EVET|%14|EVET|3|HAYIR|%28|EVET|2|HAYIR|%14|EVET
216|2026-07-26 02:50:28|4|4/3|EVET|%34|%12|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|T•B|EVET|%31|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE|PATTERN_BREAK:0,59|EVET|4|EVET|%62|EVET|3|HAYIR|%37|EVET|4|EVET|%50|EVET|3|HAYIR|%37|EVET|4|EVET|%37|EVET|4|EVET|%37|EVET|3|HAYIR|%37|EVET|3|HAYIR|%12|EVET|3|HAYIR|%25|EVET|4|EVET|%50|EVET|4|EVET|%25|EVET|3|HAYIR|%25|EVET|3|HAYIR|%12|EVET
217|2026-07-26 02:50:30|4|3/4|EVET|%34|%13|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%23|T•B|EVET|%31|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|3|EVET|%66|EVET|2|HAYIR|%33|EVET|3|EVET|%55|EVET|3|EVET|%33|EVET|3|EVET|%44|EVET|3|EVET|%44|EVET|3|EVET|%33|EVET|4|HAYIR|%11|EVET|3|EVET|%22|EVET|3|EVET|%55|EVET|3|EVET|%33|EVET|3|EVET|%22|EVET|3|EVET|%11|EVET
218|2026-07-26 02:50:33|3|4|EVET|%34|%13|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%24|C•B|EVET|%31|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>VADI||HAYIR|4|EVET|%70|EVET|3|HAYIR|%30|EVET|4|EVET|%60|EVET|4|EVET|%40|EVET|4|EVET|%50|EVET|4|EVET|%50|EVET|1|HAYIR|%40|EVET|4|EVET|%10|EVET|1|HAYI
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 219 ve sonrası)

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R|%30|EVET|4|EVET|%60|EVET|1|HAYIR|%40|EVET|3|HAYIR|%30|EVET|1|HAYIR|%20|EVET
219|2026-07-26 02:50:41|4|2|EVET|%35|%14|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|C•K|EVET|%32|VADI_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>VADI||HAYIR|2|EVET|%72|EVET|3|HAYIR|%27|EVET|2|EVET|%63|EVET|2|EVET|%45|EVET|2|EVET|%54|EVET|2|EVET|%54|EVET|2|EVET|%36|EVET|4|HAYIR|%18|EVET|3|HAYIR|%27|EVET|2|EVET|%63|EVET|2|EVET|%36|EVET|3|HAYIR|%27|EVET|2|EVET|%18|EVET
220|2026-07-26 02:50:42|2|1/3|EVET|%35|%14|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|T•K=1|EVET|%32|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE|PATTERN_BREAK:0,59|EVET|1|EVET|%75|EVET|3|HAYIR|%25|EVET|1|EVET|%66|EVET|3|HAYIR|%50|EVET|1|EVET|%58|EVET|1|EVET|%58|EVET|1|EVET|%41|EVET|1|EVET|%16|EVET|3|HAYIR|%25|EVET|1|EVET|%66|EVET|2|HAYIR|%41|EVET|3|HAYIR|%25|EVET|2|HAYIR|%25|EVET
221|2026-07-26 02:50:44|1|1|EVET|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|T•K|EVET|%33|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>TEPE||HAYIR|1|EVET|%76|EVET|3|HAYIR|%23|EVET|1|EVET|%69|EVET|1|EVET|%46|EVET|1|EVET|%61|EVET|1|EVET|%61|EVET|2|HAYIR|%46|EVET|1|EVET|%23|EVET|1|EVET|%23|EVET|1|EVET|%69|EVET|1|EVET|%38|EVET|1|EVET|%23|EVET|1|EVET|%23|EVET
222|2026-07-26 02:50:47|1|3|EVET|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|T•B|EVET|%33|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI||HAYIR|3|EVET|%78|EVET|3|EVET|%21|EVET|3|EVET|%71|EVET|3|EVET|%50|EVET|3|EVET|%64|EVET|3|EVET|%64|EVET|3|EVET|%42|EVET|1|HAYIR|%28|EVET|1|HAYIR|%28|EVET|3|EVET|%71|EVET|3|EVET|%42|EVET|1|HAYIR|%28|EVET|3|EVET|%28|EVET
223|2026-07-26 02:50:48|3|1|HAYIR|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|T•K|EVET|%33|VADI_YON|FRAGMENTARY_2|BLOK_TERS>VADI>VADI||HAYIR|1|HAYIR|%80|EVET|3|HAYIR|%26|EVET|1|HAYIR|%73|EVET|1|HAYIR|%53|EVET|3|HAYIR|%66|EVET|1|HAYIR|%66|EVET|1|HAYIR|%46|EVET|3|HAYIR|%26|EVET|4|HAYIR|%26|EVET|1|HAYIR|%73|EVET|3|HAYIR|%46|EVET|1|HAYIR|%26|EVET|4|HAYIR|%33|EVET
224|2026-07-26 02:50:55|2|3/1|EVET|%36|%16|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|T•K|EVET|%34|BLOK_TERS_TEKRAR|FRAGMENTARY_2|VADI>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|3|EVET|%75|EVET|3|EVET|%25|EVET|2|HAYIR|%68|EVET|4|HAYIR|%50|EVET|1|HAYIR|%62|EVET|1|HAYIR|%62|EVET|1|HAYIR|%43|EVET|1|HAYIR|%25|EVET|3|EVET|%25|EVET|1|HAYIR|%68|EVET|1|HAYIR|%43|EVET|1|HAYIR|%25|EVET|3|EVET|%31|EVET
225|2026-07-26 02:51:00|3|1/4|HAYIR|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|C•K|EVET|%34|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|REGIME_SHIFT:0,50|EVET|4|HAYIR|%76|EVET|3|HAYIR|%29|EVET|1|HAYIR|%64|EVET|4|HAYIR|%47|EVET|1|HAYIR|%58|EVET|1|HAYIR|%58|EVET|1|HAYIR|%41|EVET|4|HAYIR|%23|EVET|4|HAYIR|%29|EVET|1|HAYIR|%64|EVET|4|HAYIR|%41|EVET|1|HAYIR|%23|EVET|1|HAYIR|%35|EVET
226|2026-07-26 02:51:01|2|2/3|HAYIR|%36|%15|EVET|%20|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%26|C•K|HAYIR|%34|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|3|EVET|%72|EVET|3|EVET|%27|EVET|2|HAYIR|%61|EVET|4|HAYIR|%44|EVET|2|HAYIR|%55|EVET|2|HAYIR|%55|EVET|1|HAYIR|%38|EVET|1|HAYIR|%22|EVET|3|EVET|%27|EVET|2|HAYIR|%61|EVET|4|HAYIR|%38|EVET|1|HAYIR|%22|EVET|3|EVET|%33|EVET
227|2026-07-26 02:51:02|3|4/2|HAYIR|%37|%15|EVET|%21|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|T•K|EVET|%34|VADI_YON|FRAGMENTARY_2|DALGA_TEK_SIM_2>VADI>VADI||HAYIR|4|HAYIR|%73|EVET|3|HAYIR|%31|EVET|1|HAYIR|%57|EVET|3|HAYIR|%42|EVET|4|HAYIR|%52|EVET|4|HAYIR|%52|EVET|2|EVET|%36|EVET|4|HAYIR|%21|EVET|2|EVET|%31|EVET|4|HAYIR|%57|EVET|4|HAYIR|%36|EVET|3|HAYIR|%21|EVET|2|EVET|%36|EVET
228|2026-07-26 02:51:05|2|3/2|HAYIR|%36|%15|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|C•B|EVET|%35|DONGU_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>DONGU||HAYIR|3|HAYIR|%70|EVET|3|HAYIR|%30|EVET|3|HAYIR|%55|EVET|4|EVET|%40|EVET|2|HAYIR|%50|EVET|2|HAYIR|%50|EVET|3|HAYIR|%40|EVET|3|HAYIR|%20|EVET|3|HAYIR|%35|EVET|3|HAYIR|%55|EVET|3|HAYIR|%35|EVET|3|HAYIR|%20|EVET|3|HAYIR|%40|EVET
229|2026-07-26 02:51:08|4|1/2|HAYIR|%36|%15|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|T•K|EVET|%35|DONGU_YON|FRAGMENTARY_2|TEPE>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|1|HAYIR|%66|EVET|3|EVET|%28|EVET|1|HAYIR|%52|EVET|1|HAYIR|%42|EVET|1|HAYIR|%47|EVET|1|HAYIR|%47|EVET|2|HAYIR|%38|EVET|2|HAYIR|%19|EVET|3|EVET|%33|EVET|1|HAYIR|%52|EVET|1|HAYIR|%33|EVET|3|EVET|%19|EVET|1|HAYIR|%38|EVET
230|2026-07-26 02:51:12|3|4/3|EVET|%37|%16|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|T•B|EVET|%35|DONGU_YON|FRAGMENTARY_2|VADI>VADI>DONGU||HAYIR|3|HAYIR|%63|EVET|3|HAYIR|%31|EVET|4|EVET|%50|EVET|2|HAYIR|%40|EVET|3|HAYIR|%45|EVET|1|HAYIR|%45|EVET|2|HAYIR|%36|EVET|3|HAYIR|%18|EVET|2|HAYIR|%36|EVET|4|EVET|%50|EVET|3|HAYIR|%31|EVET|3|HAYIR|%22|EVET|4|EVET|%36|EVET
231|2026-07-26 02:51:13|4|2/4|HAYIR|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|C•B|HAYIR|%35|DONGU_YON|FRAGMENTARY_2|VADI>VADI>DONGU||HAYIR|2|HAYIR|%60|EVET|3|HAYIR|%30|EVET|3|HAYIR|%52|EVET|1|EVET|%39|EVET|4|HAYIR|%43|EVET|2|HAYIR|%43|EVET|2|HAYIR|%34|EVET|4|HAYIR|%17|EVET|3|HAYIR|%34|EVET|2|HAYIR|%52|EVET|2|HAYIR|%30|EVET|3|HAYIR|%21|EVET|2|HAYIR|%39|EVET
232|2026-07-26 02:51:16|1|1/2|HAYIR|%36|%15|HAYIR|%20|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|C•K|EVET|%36|DONGU_YON|FRAGMENTARY_2|BLOK_DUZ>BLOK_TERS>DONGU|PATTERN_BREAK:0,59|EVET|1|HAYIR|%58|EVET|4|EVET|%29|EVET|1|HAYIR|%50|EVET|3|HAYIR|%41|EVET|1|HAYIR|%41|EVET|1|HAYIR|%41|EVET|2|HAYIR|%33|EVET|1|HAYIR|%16|EVET|1|HAYIR|%33|EVET|1|HAYIR|%50|EVET|1|HAYIR|%29|EVET|3|HAYIR|%20|EVET|1|HAYIR|%37|EVET
233|2026-07-26 02:51:18|4|3/2|HAYIR|%36|%15|EVET|%21|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|C•K|EVET|%36|DONGU_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|3|HAYIR|%56|EVET|4|HAYIR|%32|EVET|3|HAYIR|%48|EVET|1|HAYIR|%40|EVET|3|HAYIR|%40|EVET|3|HAYIR|%40|EVET|2|EVET|%32|EVET|4|HAYIR|%16|EVET|3|HAYIR|%32|EVET|3|HAYIR|%48|EVET|3|HAYIR|%28|EVET|3|HAYIR|%20|EVET|3|HAYIR|%36|EVET
234|2026-07-26 02:51:19|2|1/2|HAYIR|%36|%15|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|T•K|EVET|%36|DONGU_YON|FRAGMENTARY_2|BLOK_TERS>VADI>DONGU||HAYIR|2|HAYIR|%53|EVET|3|EVET|%30|EVET|1|HAYIR|%46|EVET|1|HAYIR|%38|EVET|1|HAYIR|%38|EVET|2|HAYIR|%38|EVET|3|EVET|%34|EVET|3|EVET|%15|EVET|3|EVET|%30|EVET|1|HAYIR|%46|EVET|2|HAYIR|%26|EVET|1|HAYIR|%19|EVET|2|HAYIR|%34|EVET
235|2026-07-26 02:51:24|3|2/1|HAYIR|%37|%15|EVET|%21|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|T•K|EVET|%37|DONGU_TERS_YON|FRAGMENTARY_2|VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%51|EVET|3|HAYIR|%33|EVET|1|EVET|%44|EVET|3|HAYIR|%37|EVET|3|HAYIR|%37|EVET|2|HAYIR|%37|EVET|2|HAYIR|%37|EVET|4|HAYIR|%18|EVET|2|HAYIR|%33|EVET|2|HAYIR|%44|EVET|1|EVET|%25|EVET|1|EVET|%18|EVET|2|HAYIR|%33|EVET
236|2026-07-26 02:51:28|1|--|HAYIR|%36|%15|HAYIR|%21|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|T•B|EVET|%37|DONGU_TERS_YON|FRAGMENTARY_2|DONGU_TERS>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|2|HAYIR|%50|EVET|3|HAYIR|%32|EVET|4|EVET|%46|EVET|3|HAYIR|%35|EVET|1|HAYIR|%35|EVET|1|HAYIR|%35|EVET|4|EVET|%35|EVET|1|HAYIR|%17|EVET|1|HAYIR|%32|EVET|1|HAYIR|%42|EVET|2|HAYIR|%28|EVET|1|HAYIR|%21|EVET|2|HAYIR|%32|EVET
237|2026-07-26 02:51:42|4|2/3|HAYIR|%37|%15|EVET|%21|%0|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%0|C•K|HAYIR|%37|%0|DONGU_TERS_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%0|2|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0
238|2026-07-29 19:54:24|3|4/3|HAYIR|%37|%15|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%32|C•B|EVET|%37|%58|VADI_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%34|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%58|4|HAYIR|%0|EVET|%47|3|HAYIR|%0|EVET|%38|3|HAYIR|%0|EVET|%40|2|EVET|%0|EVET|%29|4|HAYIR|%0|EVET|%37|2|EVET|%0|EVET|%26|3|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%72|1|HAYIR|%0|EVET|%26|4|HAYIR|%0|EVET|%29
239|2026-07-29 19:54:25|2|3/4|HAYIR|%36|%15|HAYIR|%21|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%48|C•B|EVET|%37|%54|TEPE_YON|FRAGMENTARY_2|VADI>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%61|3|HAYIR|%0|EVET|%48|3|HAYIR|%0|EVET|%30|2|EVET|%0|EVET|%45|4|HAYIR|%0|EVET|%40|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%38|3|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%51|1|HAYIR|%0|EVET|%26|3|HAYIR|%0|EVET|%36
240|2026-07-29 19:54:25|2|3/4|HAYIR|%36|%15|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%36|T•K|EVET|%38|%52|DONGU_YON|FRAGMENTARY_2|TEPE>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%43|2|HAYIR|%0|EVET|%36|3|HAYIR|%0|EVET|%29|4|HAYIR|%0|EVET|%38|3|HAYIR|%0|EVET|%38|2|HAYIR|%0|EVET|%43|2|HAYIR|%0|EVET|%58|4|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%46|3|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%48|1|EVET|%0|EVET|%26|3|HAYIR|%0|EVET|%29
241|2026-07-29 19:54:26|1|2/1|EVET|%36|%15|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%59|T•B|HAYIR|%38|%56|TEPE_YON|FRAGMENTARY_2|DONGU>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%30|1|HAYIR|%0|EVET|%59|3|HAYIR|%0|EVET|%27|2|EVET|%0|EVET|%58|4|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%37|1|HAYIR|%0|EVET|%52|4|HAYIR|%0|EVET|%35|1|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%70|3|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%48
242|2026-07-29 19:54:27|2|3/4|HAYIR|%36|%15|HAYIR|%21|%41|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%42|T•B|HAYIR|%37|%54|VADI_YON|FRAGMENTARY_2|DONGU>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%67|4|HAYIR|%0|EVET|%42|3|HAYIR|%20|EVET|%28|3|HAYIR|%40|EVET|%40|1|HAYIR|%0|EVET|%69|4|HAYIR|%0|EVET|%26|4|HAYIR|%0|EVET|%38|3|HAYIR|%20|EVET|%33|4|HAYIR|%0|EVET|%26|3|HAYIR|%40|EVET|%27|4|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%25|3|HAYIR|%20|EVET|%27|4|HAYIR|%0|EVET|%33
243|2026-07-29 19:54:27|2|2/3|HAYIR|%36|%15|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%24|%34|T•B|EVET|%38|%55|TEPE_YON|FRAGMENTARY_2|DONGU>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%33|1|EVET|%0|EVET|%34|3|HAYIR|%16|EVET|%27|2|HAYIR|%33|EVET|%55|1|EVET|%0|EVET|%33|3|HAYIR|%0|EVET|%28|1|EVET|%0|EVET|%29|1|EVET|%16|EVET|%31|3|HAYIR|%0|EVET|%41|3|HAYIR|%33|EVET|%27|1|EVET|%0|EVET|%27|1|EVET|%0|EVET|%42|3|HAYIR|%16|EVET|%27|1|EVET|%0|EVET|%29
244|2026-07-29 19:54:28|1|2/1|EVET|%36|%15|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%53|T•K|EVET|%38|%54|BLOK_TERS_TEKRAR|FRAGMENTARY_2|DONGU>DONGU_TERS>BLOK_TERS|REGIME_SHIFT:0,75|EVET|%26|1|HAYIR|%14|EVET|%53|3|HAYIR|%14|EVET|%30|2|EVET|%28|EVET|%56|4|HAYIR|%14|EVET|%32|1|HAYIR|%0|EVET|%43|1|HAYIR|%14|EVET|%46|4|HAYIR|%28|EVET|%32|4|HAYIR|%0|EVET|%27|1|HAYIR|%28|EVET|%31|1|HAYIR|%14|EVET|%31|3|HAYIR|%14|EVET|%70|3|HAYIR|%14|EVET|%27|1|HAYIR|%14|EVET|%42
245|2026-07-29 19:54:29|2|2/3|HAYIR|%37|%15|EVET|%21|%36|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%33|C•K|HAYIR|%38|%55|VADI_YON|FRAGMENTARY_2|DONGU>DONGU_TERS>VADI|REGIME_SHIFT:0,50|EVET|%56|2|HAYIR|%12|EVET|%33|2|HAYIR|%12|EVET|%27|3|EVET|%37|EVET|%32|1|HAYIR|%12|EVET|%54|2|HAYIR|%0|EVET|%26|4|HAYIR|%12|EVET|%35|3|EVET|%25|EVET|%32|2|HAYIR|%0|EVET|%30|3|EVET|%25|EVET|%26|4|HAYIR|%12|EVET|%26|2|HAYIR|%12|EVET|%43|3|EVET|%12|EVET|%27|2|HAYIR|%12|EVET|%30
246|2026-07-29 19:54:30|3|3/2|HAYIR|%37|%15|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%24|%38|C•K|EVET|%38|%52|DONGU_YON|FRAGMENTARY_2|DONGU>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%52|2|HAYIR|%11|EVET|%38|3|HAYIR|%11|EVET|%26|3|HAYIR|%44|EVET|%87|3|HAYIR|%11|EVET|%50|1|EVET|%0|EVET|%35|1|EVET|%11|EVET|%38|2|HAYIR|%33|EVET|%33|2|HAYIR|%0|EVET|%35|2|HAYIR|%33|EVET|%28|3|HAYIR|%11|EVET|%33|1|EVET|%11|EVET|%83|3|HAYIR|%22|EVET|%27|2|HAYIR|%11|EVET|%31
247|2026-07-29 19:54:31|1|4/2|HAYIR|%37|%15|EVET|%21|%55|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|%35|C•K|EVET|%38|%53|DONGU_YON|FRAGMENTARY_2|DONGU>
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 248 ve sonrası)

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↳ TEPE>DONGU||HAYIR|%54|2|EVET|%10|EVET|%35|3|HAYIR|%10|EVET|%27|4|HAYIR|%40|EVET|%60|3|HAYIR|%10|EVET|%48|2|EVET|%10|EVET|%32|2|EVET|%20|EVET|
↳ %38|2|EVET|%30|EVET|%33|1|HAYIR|%0|EVET|%35|1|HAYIR|%30|EVET|%31|2|EVET|%10|EVET|%28|2|EVET|%20|EVET|%47|3|HAYIR|%20|EVET|%27|2|EVET|%10|EVET
↳ |%37
249 248|2026-07-29 19:54:31|2|4/2|EVET|%37|%16|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%32|C•K|EVET|%39|%52|DONGU_YON|FRAGMENTARY_2|AZALI
↳ S>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%18|EVET|%32|1|HAYIR|%9|EVET|%26|4|EVET|%36|EVET|%49|1|HAYIR|%9|EVET|%42|2|HAYIR|%18|EVET|%
↳ 45|2|HAYIR|%27|EVET|%42|3|HAYIR|%36|EVET|%34|2|HAYIR|%0|EVET|%31|3|HAYIR|%27|EVET|%28|2|HAYIR|%18|EVET|%30|4|EVET|%27|EVET|%69|1|HAYIR|%18|EV
↳ ET|%26|3|HAYIR|%18|EVET|%29
250 249|2026-07-29 19:54:32|4|1/3|HAYIR|%37|%16|HAYIR|%21|%49|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%41|T•K|HAYIR|%39|%58|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%60|1|HAYIR|%16|EVET|%41|3|HAYIR|%8|EVET|%27|1|HAYIR|%41|EVET|%57|1|HAYIR|%8|EVET|%67|2|HAYIR|%16|EVET|%
↳ 28|1|HAYIR|%25|EVET|%36|2|HAYIR|%33|EVET|%31|2|HAYIR|%0|EVET|%31|3|HAYIR|%25|EVET|%30|1|HAYIR|%16|EVET|%36|1|HAYIR|%33|EVET|%69|1|HAYIR|%16|E
↳ VET|%26|3|HAYIR|%16|EVET|%31
251 250|2026-07-29 19:54:32|4|3/2|EVET|%37|%16|HAYIR|%21|%43|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%24|%49|T•B|EVET|%39|%51|VADI_YON|FRAGMENTARY_2|DONGU>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%56|3|EVET|%15|EVET|%49|3|EVET|%7|EVET|%25|3|EVET|%38|EVET|%81|3|EVET|%7|EVET|%47|2|HAYIR|%15|EVET|%44|3|EVE
↳ T|%23|EVET|%39|3|EVET|%30|EVET|%46|3|EVET|%0|EVET|%34|3|EVET|%23|EVET|%29|3|EVET|%15|EVET|%43|2|HAYIR|%30|EVET|%75|1|HAYIR|%15|EVET|%26|3|EVE
↳ T|%15|EVET|%38
252 251|2026-07-29 19:54:33|3|4|HAYIR|%37|%16|HAYIR|%21|%74|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%37|C•B|EVET|%39|%56|TEPE_YON|FRAGMENTARY_2|TEPE>TE
↳ PE>TEPE||HAYIR|%72|4|HAYIR|%21|EVET|%37|3|EVET|%14|EVET|%29|4|HAYIR|%42|EVET|%80|4|HAYIR|%14|EVET|%48|1|HAYIR|%14|EVET|%28|4|HAYIR|%28|EVET|%
↳ 35|2|HAYIR|%35|EVET|%31|2|HAYIR|%7|EVET|%32|2|HAYIR|%28|EVET|%27|4|HAYIR|%21|EVET|%37|4|HAYIR|%28|EVET|%73|1|HAYIR|%14|EVET|%26|2|HAYIR|%21|E
↳ VET|%27
253 252|2026-07-29 19:54:34|3|1/3|HAYIR|%37|%16|EVET|%21|%34|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%33|T•B|EVET|%39|%52|TEPE_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%46|3|EVET|%20|EVET|%33|4|HAYIR|%20|EVET|%35|1|HAYIR|%40|EVET|%35|4|HAYIR|%13|EVET|%34|3|EVET|%13|
↳ EVET|%33|3|EVET|%26|EVET|%39|2|HAYIR|%33|EVET|%40|3|EVET|%6|EVET|%36|2|HAYIR|%26|EVET|%26|3|EVET|%20|EVET|%28|3|EVET|%26|EVET|%73|1|HAYIR|%13
↳ |EVET|%26|4|HAYIR|%20|EVET|%26
254 253|2026-07-29 19:54:35|3|4/1|HAYIR|%37|%16|HAYIR|%21|%37|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%34|T•B|HAYIR|%39|%54|VADI_YON|FRAGMENTARY_2|VADI
↳ >VADI>VADI|PATTERN_BREAK:0,59|EVET|%42|4|HAYIR|%25|EVET|%34|3|HAYIR|%18|EVET|%30|1|HAYIR|%37|EVET|%40|4|HAYIR|%12|EVET|%39|1|HAYIR|%18|EVET|%
↳ 30|4|HAYIR|%31|EVET|%41|4|HAYIR|%31|EVET|%38|3|HAYIR|%12|EVET|%38|2|EVET|%25|EVET|%26|4|HAYIR|%25|EVET|%31|4|HAYIR|%31|EVET|%60|1|HAYIR|%12|E
↳ VET|%26|3|HAYIR|%18|EVET|%33
255 254|2026-07-29 19:54:36|2|3|HAYIR|%37|%16|HAYIR|%21|%80|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%52|T•K|EVET|%40|%54|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE||HAYIR|%90|3|HAYIR|%23|EVET|%52|3|HAYIR|%17|EVET|%28|3|HAYIR|%35|EVET|%69|1|EVET|%11|EVET|%43|3|HAYIR|%17|EVET|%37|3|HAYIR|%29|EVET|
↳ %53|3|HAYIR|%29|EVET|%32|3|HAYIR|%11|EVET|%30|3|HAYIR|%29|EVET|%27|3|HAYIR|%23|EVET|%38|3|HAYIR|%29|EVET|%90|3|HAYIR|%11|EVET|%27|3|HAYIR|%17
↳ |EVET|%33
256 255|2026-07-29 19:54:36|1|1/2|EVET|%37|%16|HAYIR|%21|%51|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%47|C•K|EVET|%40|%59|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE|PATTERN_BREAK:0,59|EVET|%70|1|EVET|%22|EVET|%47|1|EVET|%16|EVET|%29|1|EVET|%33|EVET|%55|1|EVET|%16|EVET|%34|1|EVET|%16|EVET|%34|1|EV
↳ ET|%27|EVET|%53|2|HAYIR|%27|EVET|%36|1|EVET|%11|EVET|%33|1|EVET|%27|EVET|%30|1|EVET|%22|EVET|%37|1|EVET|%27|EVET|%89|3|HAYIR|%11|EVET|%27|1|E
↳ VET|%16|EVET|%38
257 256|2026-07-29 19:54:37|1|3/1|EVET|%38|%16|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%48|T•B|EVET|%40|%55|BLOK_TERS_TEKRAR|FRAGMENTARY_2
↳ |BLOK_TERS>DONGU>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%51|3|EVET|%26|EVET|%48|2|HAYIR|%21|EVET|%31|4|HAYIR|%36|EVET|%35|3|EVET
↳ |%21|EVET|%47|1|HAYIR|%21|EVET|%31|3|EVET|%31|EVET|%37|3|EVET|%26|EVET|%44|3|EVET|%15|EVET|%34|1|HAYIR|%31|EVET|%31|3|EVET|%26|EVET|%34|3|EVE
↳ T|%31|EVET|%83|3|EVET|%10|EVET|%27|3|EVET|%21|EVET|%37
258 257|2026-07-29 19:54:40|3|1/3|EVET|%38|%17|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%32|T•K|EVET|%40|%56|VADI_YON|WEAK_PERIODIC_3|BLOK_
↳ TERS>DONGU>VADI|REGIME_SHIFT:0,50|EVET|%31|1|EVET|%30|EVET|%32|3|HAYIR|%20|EVET|%31|2|HAYIR|%35|EVET|%30|1|EVET|%25|EVET|%31|2|HAYIR|%20|EVET
↳ |%27|4|HAYIR|%35|EVET|%30|2|HAYIR|%30|EVET|%31|3|HAYIR|%20|EVET|%31|2|HAYIR|%30|EVET|%27|1|EVET|%30|EVET|%28|3|HAYIR|%35|EVET|%41|3|HAYIR|%15
↳ |EVET|%27|2|HAYIR|%25|EVET|%27
259 258|2026-07-29 19:54:41|1|1/3|HAYIR|%38|%17|EVET|%21|%40|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%38|T•K|EVET|%41|%56|BLOK_TERS_TEKRAR|FRAGMENTARY_
↳ 2|VADI>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,61|EVET|%58|1|HAYIR|%33|EVET|%38|3|EVET|%19|EVET|%31|1|HAYIR|%33|EVET|%69|3|EVET|%28|
↳ EVET|%47|1|HAYIR|%19|EVET|%44|1|HAYIR|%33|EVET|%53|2|HAYIR|%28|EVET|%35|1|HAYIR|%19|EVET|%34|1|HAYIR|%28|EVET|%31|1|HAYIR|%33|EVET|%38|1|HAYI
↳ R|%33|EVET|%55|3|EVET|%14|EVET|%27|2|HAYIR|%23|EVET|%41
260 259|2026-07-29 19:54:41|3|2/4|HAYIR|%39|%17|EVET|%21|%42|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%42|C•K|EVET|%41|%56|VADI_YON|FRAGMENTARY_2|VADI>T
↳ EPE>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%66|2|HAYIR|%31|EVET|%42|3|HAYIR|%22|EVET|%32|2|HAYIR|%31|EVET|%70|2|HAYIR|%31|EVET|%43|2|
↳ HAYIR|%18|EVET|%30|2|HAYIR|%31|EVET|%42|1|HAYIR|%27|EVET|%31|2|HAYIR|%18|EVET|%34|2|HAYIR|%27|EVET|%27|2|HAYIR|%31|EVET|%39|2|HAYIR|%31|EVET|
↳ %66|3|HAYIR|%18|EVET|%27|1|HAYIR|%22|EVET|%28
261 260|2026-07-29 19:54:42|4|3/2|EVET|%39|%17|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%37|T•B|EVET|%41|%56|VADI_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_1>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%30|EVET|%37|3|EVET|%21|EVET|%33|3|EVET|%30|EVET|%79|4|HAYIR|%30|EVET|%31|3|EVET|%17|
↳ EVET|%46|3|EVET|%30|EVET|%57|3|EVET|%26|EVET|%30|3|EVET|%17|EVET|%30|3|EVET|%26|EVET|%32|3|EVET|%30|EVET|%42|2|HAYIR|%30|EVET|%65|3|EVET|%17|
↳ EVET|%27|2|HAYIR|%21|EVET|%35
262 261|2026-07-29 19:54:44|3|4/2|HAYIR|%39|%17|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%39|C•B|HAYIR|%41|%55|DONGU_TERS_YON|FRAGMENTARY_
↳ 2|VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%29|EVET|%39|3|HAYIR|%25|EVET|%33|4|HAYIR|%33|EVET|%40|2|HAYIR|%29|EVET|%37|4|HAYI
↳ R|%20|EVET|%41|4|HAYIR|%33|EVET|%57|1|EVET|%29|EVET|%29|2|HAYIR|%20|EVET|%28|2|HAYIR|%29|EVET|%26|4|HAYIR|%33|EVET|%33|3|HAYIR|%29|EVET|%50|1
↳ |EVET|%20|EVET|%26|3|HAYIR|%20|EVET|%27
263 262|2026-07-29 19:54:44|1|1/2|HAYIR|%38|%17|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%40|T•K|HAYIR|%41|%51|TEPE_YON|FRAGMENTARY_2|VADI
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%28|EVET|%40|3|HAYIR|%24|EVET|%41|1|HAYIR|%32|EVET|%42|1|HAYIR|%28|EVET|%27|2|HAYIR|%20|EVET|%
↳ 30|2|HAYIR|%32|EVET|%46|2|HAYIR|%32|EVET|%32|1|HAYIR|%20|EVET|%34|1|HAYIR|%28|EVET|%30|1|HAYIR|%32|EVET|%28|2|HAYIR|%28|EVET|%61|1|HAYIR|%24|
↳ EVET|%26|2|HAYIR|%20|EVET|%37
264 263|2026-07-29 19:54:45|4|3/4|HAYIR|%39|%17|EVET|%21|%33|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%35|C•K|EVET|%41|%55|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%43|3|HAYIR|%26|EVET|%35|3|HAYIR|%23|EVET|%38|4|EVET|%30|EVET|%40|4|EVET|%26|EVET|%38|4|EVET|%19|EVET|%41|
↳ 4|EVET|%30|EVET|%45|3|HAYIR|%30|EVET|%33|3|HAYIR|%19|EVET|%30|3|HAYIR|%26|EVET|%33|3|HAYIR|%30|EVET|%31|4|EVET|%26|EVET|%50|1|HAYIR|%23|EVET|
↳ %26|3|HAYIR|%19|EVET|%40
265 264|2026-07-29 19:54:45|4|3/4|HAYIR|%39|%17|HAYIR|%21|%57|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%66|T•B|HAYIR|%41|%58|DONGU_YON|FRAGMENTARY_2|DON
↳ GU_TERS>BLOK_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%73|3|HAYIR|%25|EVET|%66|4|HAYIR|%22|EVET|%36|3|HAYIR|%33|EVET|%95|3|HAYIR|%29|EVET|%63|3|HAY
↳ IR|%22|EVET|%46|3|HAYIR|%33|EVET|%75|3|HAYIR|%29|EVET|%50|3|HAYIR|%18|EVET|%48|3|HAYIR|%25|EVET|%32|3|HAYIR|%29|EVET|%57|3|HAYIR|%29|EVET|%71
↳ |1|HAYIR|%22|EVET|%26|3|HAYIR|%18|EVET|%45
266 265|2026-07-29 19:54:48|2|3/1|HAYIR|%38|%17|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|T•K|HAYIR|%41|%53|TEPE_YON|FRAGMENTARY_2|VADI
↳ >VADI>TEPE|PATTERN_BREAK:0,59|EVET|%46|1|HAYIR|%25|EVET|%36|3|HAYIR|%21|EVET|%31|3|HAYIR|%32|EVET|%70|3|HAYIR|%28|EVET|%51|1|HAYIR|%21|EVET|%
↳ 31|2|HAYIR|%32|EVET|%35|3|HAYIR|%28|EVET|%31|2|HAYIR|%17|EVET|%27|3|HAYIR|%25|EVET|%27|3|HAYIR|%28|EVET|%34|1|HAYIR|%28|EVET|%66|1|HAYIR|%21|
↳ EVET|%26|2|HAYIR|%17|EVET|%28
267 266|2026-07-29 19:54:49|4|1/3|HAYIR|%38|%17|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%31|T•B|EVET|%41|%59|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%24|EVET|%31|4|EVET|%20|EVET|%29|1|HAYIR|%31|EVET|%64|1|HAYIR|%27|EVET|%39|3|HAYIR|%20
↳ |EVET|%29|1|HAYIR|%31|EVET|%30|3|HAYIR|%27|EVET|%32|2|HAYIR|%17|EVET|%27|3|HAYIR|%24|EVET|%31|1|HAYIR|%27|EVET|%29|2|HAYIR|%27|EVET|%45|1|HAY
↳ IR|%20|EVET|%26|3|HAYIR|%17|EVET|%29
268 267|2026-07-29 19:54:49|4|3/2|HAYIR|%38|%16|HAYIR|%21|%58|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%54|C•B|HAYIR|%41|%55|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>VADI>DONGU||HAYIR|%72|3|HAYIR|%23|EVET|%54|3|HAYIR|%23|EVET|%29|3|HAYIR|%30|EVET|%83|3|HAYIR|%26|EVET|%49|2|HAYIR|%20|EVET|%42|3|HAYIR|%30|
↳ EVET|%45|3|HAYIR|%26|EVET|%37|3|HAYIR|%16|EVET|%42|3|HAYIR|%23|EVET|%31|3|HAYIR|%26|EVET|%45|2|HAYIR|%26|EVET|%63|3|HAYIR|%20|EVET|%27|3|HAYI
↳ R|%16|EVET|%40
269 268|2026-07-29 19:55:00|1|3/1|HAYIR|%38|%16|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%32|T•B|HAYIR|%41|%52|VADI_YON|FRAGMENTARY_2|BLOK
↳ _TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%36|1|HAYIR|%22|EVET|%32|3|HAYIR|%22|EVET|%34|3|HAYIR|%29|EVET|%100|2|EVET|%25|EVET|%45|3|HAYIR|%19|E
↳ VET|%45|1|HAYIR|%29|EVET|%34|4|HAYIR|%25|EVET|%31|1|HAYIR|%16|EVET|%26|1|HAYIR|%22|EVET|%29|3|HAYIR|%25|EVET|%38|3|HAYIR|%25|EVET|%78|3|HAYIR
↳ |%19|EVET|%27|1|HAYIR|%16|EVET|%35
270 269|2026-07-29 19:55:01|2|4/1|EVET|%38|%17|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%44|C•K|EVET|%41|%55|TEPE_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%47|4|EVET|%21|EVET|%44|3|HAYIR|%21|EVET|%32|4|EVET|%28|EVET|%81|1|HAYIR|%28|EVET|%51|4|EVET|%18|E
↳ VET|%34|4|EVET|%28|EVET|%48|3|HAYIR|%25|EVET|%29|1|HAYIR|%15|EVET|%30|3|HAYIR|%21|EVET|%26|4|EVET|%25|EVET|%36|4|EVET|%25|EVET|%86|3|HAYIR|%1
↳ 8|EVET|%27|4|EVET|%15|EVET|%32
271 270|2026-07-29 19:55:01|4|1/3|HAYIR|%38|%17|HAYIR|%21|%56|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%31|T•K|HAYIR|%41|%57|DONGU_YON|FRAGMENTARY_2|BLO
↳ K_TERS>TEPE>DONGU||HAYIR|%65|1|HAYIR|%24|EVET|%31|3|HAYIR|%21|EVET|%40|1|HAYIR|%30|EVET|%40|1|HAYIR|%27|EVET|%57|3|HAYIR|%21|EVET|%32|1|HAYIR
↳ |%30|EVET|%37|3|HAYIR|%24|EVET|%31|4|EVET|%15|EVET|%30|3|HAYIR|%21|EVET|%30|3|HAYIR|%27|EVET|%29|1|HAYIR|%27|EVET|%69|3|HAYIR|%18|EVET|%27|3|
↳ HAYIR|%18|EVET|%26
272 271|2026-07-29 19:55:02|4|3|HAYIR|%38|%17|HAYIR|%21|%65|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%53|T•B|EVET|%41|%55|DONGU_YON|FRAGMENTARY_2|BLOK_T
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 272 ve sonrası)

```
ERS>DONGU>DONGU||HAYIR|%73|3|HAYIR|%23|EVET|%53|3|HAYIR|%20|EVET|%29|3|HAYIR|%29|EVET|%70|4|HAYIR|%26|EVET|%32|3|HAYIR|%20|EVET|%44|3|HAYIR|%
29|EVET|%61|3|HAYIR|%23|EVET|%31|3|HAYIR|%17|EVET|%33|3|HAYIR|%20|EVET|%29|3|HAYIR|%26|EVET|%43|2|HAYIR|%26|EVET|%58|3|HAYIR|%17|EVET|%27|3|H
AYIR|%17|EVET|%35
272|2026-07-29 19:55:04|1|2/3|HAYIR|%38|%17|HAYIR|%21|%48|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%24|%54|C•K|EVET|%41|%54|DONGU_YON|FRAGMENTARY_2|BLOK
_TERS>DONGU>DONGU||HAYIR|%53|2|HAYIR|%22|EVET|%54|3|HAYIR|%20|EVET|%29|2|HAYIR|%28|EVET|%97|4|HAYIR|%25|EVET|%39|4|HAYIR|%20|EVET|%25|2|HAYIR
|%28|EVET|%44|2|HAYIR|%22|EVET|%32|1|EVET|%17|EVET|%26|1|EVET|%20|EVET|%28|2|HAYIR|%25|EVET|%41|3|HAYIR|%25|EVET|%68|3|HAYIR|%17|EVET|%27|2|H
AYIR|%17|EVET|%36
273|2026-07-29 19:55:05|1|3/1|HAYIR|%37|%16|HAYIR|%20|%46|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%58|T•K|HAYIR|%41|%54|DONGU_TERS_YON|FRAGMENTARY_
2|VADI>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%58|3|HAYIR|%22|EVET|%58|3|HAYIR|%19|EVET|%30|3|HAYIR|%27|EVET|%66|3|HAYIR|%25|EVET|%64|3|HAYI
R|%19|EVET|%37|3|HAYIR|%27|EVET|%59|3|HAYIR|%22|EVET|%46|1|HAYIR|%19|EVET|%34|1|HAYIR|%22|EVET|%30|3|HAYIR|%25|EVET|%47|3|HAYIR|%25|EVET|%86|
3|HAYIR|%16|EVET|%27|3|HAYIR|%16|EVET|%41
274|2026-07-29 19:55:08|4|3/2|HAYIR|%38|%16|EVET|%21|%41|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%45|T•B|HAYIR|%41|%51|VADI_YON|FRAGMENTARY_2|TEPE>
TEPE>VADI|PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%21|EVET|%45|3|HAYIR|%18|EVET|%29|3|HAYIR|%27|EVET|%100|2|EVET|%24|EVET|%36|3|HAYIR|%18|EVET|%4
3|3|HAYIR|%27|EVET|%54|3|HAYIR|%21|EVET|%30|4|HAYIR|%18|EVET|%32|3|HAYIR|%21|EVET|%28|3|HAYIR|%24|EVET|%42|3|HAYIR|%24|EVET|%96|1|HAYIR|%16|E
VET|%26|3|HAYIR|%16|EVET|%33
275|2026-07-29 19:55:09|2|1/4|HAYIR|%38|%16|HAYIR|%21|%25|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%24|%29|C•B|EVET|%41|%51|TEPE_YON|FRAGMENTARY_2|DONGU>
DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%27|2|EVET|%21|EVET|%29|3|HAYIR|%18|EVET|%26|3|HAYIR|%26|EVET|%46|4|HAYIR|%26|EVET|%37|1|HAYIR|%18|EVET|%2
7|2|EVET|%26|EVET|%31|4|HAYIR|%21|EVET|%33|1|HAYIR|%18|EVET|%29|4|HAYIR|%21|EVET|%27|3|HAYIR|%23|EVET|%28|1|HAYIR|%23|EVET|%47|1|HAYIR|%15|EV
ET|%26|4|HAYIR|%15|EVET|%28
276|2026-07-29 19:55:10|2|4/3|HAYIR|%38|%16|EVET|%21|%31|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%24|%33|T•B|EVET|%41|%53|TEPE_YON|FRAGMENTARY_2|VADI>V
ADI>TEPE|PATTERN_BREAK:0,59|EVET|%36|4|HAYIR|%23|EVET|%33|3|EVET|%17|EVET|%28|4|HAYIR|%25|EVET|%52|1|HAYIR|%25|EVET|%37|4|HAYIR|%17|EVET|%44|
4|HAYIR|%28|EVET|%48|1|HAYIR|%20|EVET|%35|3|EVET|%17|EVET|%31|4|HAYIR|%20|EVET|%27|4|HAYIR|%23|EVET|%33|3|EVET|%23|EVET|%66|1|HAYIR|%15|EVET|
%26|1|HAYIR|%15|EVET|%34
277|2026-07-29 19:55:12|3|1/4|HAYIR|%38|%16|EVET|%21|%27|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%31|T•B|EVET|%42|%52|VADI_YON|FRAGMENTARY_2|TEPE>T
EPE>VADI|PATTERN_BREAK:0,59|EVET|%39|1|HAYIR|%22|EVET|%31|3|HAYIR|%20|EVET|%30|3|HAYIR|%25|EVET|%43|3|HAYIR|%25|EVET|%30|4|EVET|%17|EVET|%31|
4|EVET|%27|EVET|%30|1|HAYIR|%20|EVET|%30|4|EVET|%20|EVET|%29|1|HAYIR|%20|EVET|%27|3|HAYIR|%22|EVET|%25|1|HAYIR|%25|EVET|%34|1|HAYIR|%15|EVET|
%26|1|HAYIR|%15|EVET|%35
278|2026-07-29 19:55:13|4|4/2|HAYIR|%38|%16|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%31|C•K|HAYIR|%41|%55|VADI_YON|FRAGMENTARY_2|TEPE
>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%47|4|HAYIR|%21|EVET|%31|3|EVET|%19|EVET|%29|2|HAYIR|%24|EVET|%36|1|HAYIR|%24|EVET|%32|3|EVET|%19|EVET|%4
3|3|EVET|%29|EVET|%49|2|HAYIR|%19|EVET|%30|4|HAYIR|%21|EVET|%38|3|EVET|%19|EVET|%27|3|EVET|%21|EVET|%30|4|HAYIR|%24|EVET|%89|1|HAYIR|%14|EVET
|%26|2|HAYIR|%14|EVET|%32
279|2026-07-29 19:55:14|3|3/4|EVET|%38|%16|HAYIR|%21|%50|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%24|%35|T•B|EVET|%42|%55|TEPE_YON|FRAGMENTARY_2|VADI>DO
NGU>TEPE||HAYIR|%54|3|EVET|%21|EVET|%35|3|EVET|%21|EVET|%32|1|HAYIR|%23|EVET|%33|1|HAYIR|%23|EVET|%31|3|EVET|%21|EVET|%44|3|EVET|%30|EVET|%55
|4|HAYIR|%19|EVET|%31|4|HAYIR|%21|EVET|%32|1|HAYIR|%21|EVET|%26|3|EVET|%23|EVET|%31|3|EVET|%23|EVET|%48|1|HAYIR|%14|EVET|%26|1|HAYIR|%14|EVET
|%27
280|2026-07-29 19:55:15|3|2/4|HAYIR|%38|%16|HAYIR|%21|%46|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%24|%41|C•B|HAYIR|%41|%54|TEPE_YON|FRAGMENTARY_2|VADI
>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%23|EVET|%41|3|HAYIR|%23|EVET|%32|2|HAYIR|%23|EVET|%34|2|HAYIR|%23|EVET|%41|2|HAYIR|%23|EVET|
%42|2|HAYIR|%32|EVET|%62|2|HAYIR|%18|EVET|%37|3|HAYIR|%20|EVET|%33|1|EVET|%20|EVET|%25|2|HAYIR|%25|EVET|%37|3|HAYIR|%25|EVET|%79|3|HAYIR|%13|
EVET|%27|3|HAYIR|%13|EVET|%29
281|2026-07-29 19:55:16|1|2/3|HAYIR|%38|%16|EVET|%21|%47|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%44|T•K|EVET|%42|%53|DONGU_YON|FRAGMENTARY_2|TEPE>
DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%22|EVET|%44|3|EVET|%22|EVET|%29|3|EVET|%22|EVET|%55|2|HAYIR|%22|EVET|%35|2|HAYIR|%22|EV
ET|%42|2|HAYIR|%31|EVET|%60|2|HAYIR|%18|EVET|%32|1|HAYIR|%20|EVET|%34|1|HAYIR|%22|EVET|%29|2|HAYIR|%25|EVET|%35|2|HAYIR|%25|EVET|%99|3|EVET|%
13|EVET|%27|2|HAYIR|%13|EVET|%34
282|2026-07-29 19:55:17|3|4/2|HAYIR|%38|%16|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%36|T•B|EVET|%42|%53|TEPE_YON|FRAGMENTARY_2|VADI>
VADI>TEPE|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%22|EVET|%36|3|EVET|%24|EVET|%31|3|EVET|%24|EVET|%61|4|HAYIR|%22|EVET|%43|4|HAYIR|%22|EVET|%35|
4|HAYIR|%31|EVET|%51|4|HAYIR|%17|EVET|%30|4|HAYIR|%20|EVET|%32|1|HAYIR|%22|EVET|%27|4|HAYIR|%24|EVET|%34|2|HAYIR|%24|EVET|%52|3|EVET|%15|EVET
|%27|4|HAYIR|%13|EVET|%29
283|2026-07-29 19:55:17|3|3/4|HAYIR|%38|%16|EVET|%22|%0|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%24|%0|C•K|EVET|%43|%0|DONGU_YON|FRAGMENTARY_2|VADI>TEPE
>DONGU|PATTERN_BREAK:0,59|EVET|%0|2|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|2|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVE
T|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|EVET|%0|EVET|%0|2|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0
284|2026-07-29 19:55:21|2|4/3|EVET|%39|%17|HAYIR|%22|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%51|T•B|EVET|%42|%55|DONGU_YON|FRAGMENTARY_2|TEPE>
TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%71|3|HAYIR|%0|EVET|%51|3|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%54|1|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%46|3|
HAYIR|%0|EVET|%63|4|EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%26|3|HAYIR|%0|EVET|%39|3|HAYIR|%0|EVET|%90|3|HAYIR|%0|EVET|%27|3|HA
YIR|%0|EVET|%30
285|2026-07-29 19:55:22|4|4/3|HAYIR|%38|%16|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%34|T•B|HAYIR|%42|%54|DONGU_YON|FRAGMENTARY_2|VAD
I>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%33|1|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%41|1|HAYIR|%0|EVET|%38|1|HAYIR|%0|EVET|%42|
1|HAYIR|%0|EVET|%55|3|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%82|1|HAYIR|%0|EVET|%26|4
|HAYIR|%0|EVET|%31
286|2026-07-29 19:55:22|2|4/3|EVET|%39|%17|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%24|%33|T•B|EVET|%43|%52|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%36|2|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%33|4|EVET|%0|EVET|%62|4|EVET|%0|EVET|%44|3|HAYIR|%0|EVE
T|%45|3|HAYIR|%0|EVET|%29|4|EVET|%0|EVET|%33|3|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%28|4|EVET|%0|EVET|%31|4|EVET|%0|EVET|%54|1|HAYIR|%0|EVET|%26
|2|HAYIR|%0|EVET|%30
287|2026-07-29 19:55:25|4|2/4|HAYIR|%39|%17|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%24|%41|T•K|EVET|%43|%52|VADI_YON|FRAGMENTARY_2|BLOK_
DUZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%0|EVET|%41|3|HAYIR|%0|EVET|%38|1|EVET|%0|EVET|%41|4|HAYIR|%0|EVET|%36|4|HAYIR|%0|EVET|%32|
4|HAYIR|%0|EVET|%37|2|HAYIR|%0|EVET|%31|4|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|4|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%39|1|EVET|%0|EVET|%26|4|
HAYIR|%0|EVET|%28
288|2026-07-29 19:55:26|1|2/1|HAYIR|%38|%17|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%38|T•B|EVET|%43|%54|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%20|EVET|%38|3|HAYIR|%0|EVET|%31|2|HAYIR|%40|EVET|%49|2|HAYIR|%40|EVET|%49|2|HAYIR|
%0|EVET|%30|2|HAYIR|%0|EVET|%38|2|HAYIR|%40|EVET|%30|1|HAYIR|%0|EVET|%30|1|HAYIR|%20|EVET|%29|2|HAYIR|%40|EVET|%33|2|HAYIR|%40|EVET|%57|1|HAY
IR|%20|EVET|%26|1|HAYIR|%0|EVET|%37
289|2026-07-29 19:55:27|4|3/2|HAYIR|%38|%17|HAYIR|%21|%37|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%39|C•K|EVET|%43|%53|DONGU_TERS_YON|FRAGMENTARY_2
|BLOK_TERS>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%51|3|HAYIR|%16|EVET|%39|3|HAYIR|%0|EVET|%30|3|HAYIR|%33|EVET|%52|2|HAYIR|%33|EVET|%36|3|
HAYIR|%0|EVET|%44|3|HAYIR|%0|EVET|%54|2|HAYIR|%33|EVET|%29|4|EVET|%0|EVET|%29|3|HAYIR|%16|EVET|%28|3|HAYIR|%33|EVET|%36|3|HAYIR|%33|EVET|%53|
1|HAYIR|%16|EVET|%26|2|HAYIR|%0|EVET|%31
290|2026-07-29 19:55:27|4|3/2|EVET|%39|%17|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%24|%35|T•K|EVET|%43|%52|DONGU_TERS_YON|FRAGMENTARY_2|D
ALGA_TEK_SIM_3>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%47|3|EVET|%14|EVET|%35|4|HAYIR|%0|EVET|%32|2|HAYIR|%28|EVET|%70|1|HAYIR|%28|EVET|%34|
3|EVET|%0|EVET|%27|3|EVET|%0|EVET|%36|1|HAYIR|%28|EVET|%29|3|EVET|%14|EVET|%38|3|EVET|%14|EVET|%27|3|EVET|%28|EVET|%30|3|EVET|%28|EVET|%68|1|
HAYIR|%14|EVET|%26|3|EVET|%0|EVET|%32
291|2026-07-29 19:55:30|3|2/1|HAYIR|%39|%17|EVET|%21|%27|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%28|T•B|EVET|%44|%50|DONGU_TERS_YON|FRAGMENTARY_2|
TEPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%41|3|HAYIR|%25|EVET|%28|3|HAYIR|%0|EVET|%30|4|HAYIR|%25|EVET|%43|4|HAYIR|%25|EVET|%37|2|HAYIR|
%12|EVET|%41|2|HAYIR|%12|EVET|%35|4|HAYIR|%25|EVET|%30|4|HAYIR|%25|EVET|%30|1|EVET|%25|EVET|%28|4|HAYIR|%37|EVET|%29|4|HAYIR|%37|EVET|%72|3|H
AYIR|%12|EVET|%27|3|HAYIR|%12|EVET|%30
292|2026-07-29 19:55:31|1|1/3|HAYIR|%39|%17|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|%33|T•B|HAYIR|%44|%56|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%30|2|EVET|%22|EVET|%33|3|HAYIR|%0|EVET|%30|4|HAYIR|%22|EVET|%45|3|HAYIR|%22|EVET|%46|1|HAYIR|
%11|EVET|%30|2|EVET|%11|EVET|%42|4|HAYIR|%22|EVET|%33|4|HAYIR|%22|EVET|%33|1|HAYIR|%33|EVET|%28|4|HAYIR|%33|EVET|%28|2|EVET|%33|EVET|%59|3|HA
YIR|%11|EVET|%27|2|EVET|%11|EVET|%31
293|2026-07-29 19:55:31|2|4/3|HAYIR|%39|%17|EVET|%22|%43|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%42|C•B|EVET|%44|%51|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%65|4|HAYIR|%30|EVET|%42|3|EVET|%0|EVET|%31|4|HAYIR|%20|EVET|%59|1|HAYIR|%20|EVET|%51|3|EVET|%1
0|EVET|%44|4|HAYIR|%20|EVET|%35|4|HAYIR|%20|EVET|%36|4|HAYIR|%20|EVET|%34|4|HAYIR|%30|EVET|%29|4|HAYIR|%30|EVET|%33|4|HAYIR|%40|EVET|%77|3|EV
ET|%10|EVET|%27|4|HAYIR|%20|EVET|%38
294|2026-07-29 19:55:33|3|1/3|HAYIR|%39|%17|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%24|%36|C•B|EVET|%44|%52|VADI_YON|FRAGMENTARY_2|BLOK_D
UZ>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%32|2|EVET|%27|EVET|%36|3|HAYIR|%9|EVET|%31|2|EVET|%18|EVET|%47|3|HAYIR|%18|EVET|%31|2|EVET|%18|EV
ET|%42|2|EVET|%18|EVET|%47|1|HAYIR|%18|EVET|%30|4|HAYIR|%18|EVET|%31|1|HAYIR|%27|EVET|%29|2|EVET|%27|EVET|%30|1|HAYIR|%36|EVET|%88|3|HAYIR|%1
8|EVET|%27|1|HAYIR|%18|EVET|%33
295|2026-07-29 19:55:34|2|4/3|HAYIR|%39|%17|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%43|C•K|EVET|%44|%55|TEPE_YON|FRAGMENTARY_2|TEPE>
VADI>TEPE|PATTERN_BREAK:0,59|EVET|%43|3|HAYIR|%33|EVET|%43|3|HAYIR|%8|EVET|%30|2|EVET|%25|EVET|%44|4|HAYIR|%16|EVET|%37|3|HAYIR|%25|EVET|%45|
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 296 ve sonrası)

```
3|HAYIR|%25|EVET|%55|4|HAYIR|%16|EVET|%34|1|HAYIR|%16|EVET|%26|4|HAYIR|%25|EVET|%29|3|HAYIR|%33|EVET|%33|4|HAYIR|%33|EVET|%69|3|HAYIR|%16|EVE
T|%27|4|HAYIR|%16|EVET|%31
296|2026-07-29 19:55:34|2|4/3|HAYIR|%39|%17|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%31|T•B|EVET|%44|%60|VADI_YON|FRAGMENTARY_2|TEPE>D
ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%30|EVET|%31|3|EVET|%7|EVET|%29|4|HAYIR|%30|EVET|%63|4|HAYIR|%15|EVET|%36|4|HAYIR|%23|EVET
|%44|4|HAYIR|%23|EVET|%43|3|EVET|%15|EVET|%30|3|EVET|%15|EVET|%40|4|HAYIR|%23|EVET|%28|4|HAYIR|%30|EVET|%37|4|HAYIR|%30|EVET|%46|3|EVET|%15|E
VET|%27|3|EVET|%15|EVET|%30
297|2026-07-29 19:55:35|3|3/1|HAYIR|%39|%16|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%33|C•B|EVET|%45|%53|VADI_YON|FRAGMENTARY_2|BLOK_
TERS>DONGU_TERS>VADI||HAYIR|%46|2|HAYIR|%28|EVET|%33|3|HAYIR|%14|EVET|%40|4|EVET|%28|EVET|%36|3|HAYIR|%14|EVET|%31|4|EVET|%21|EVET|%28|4|EVET
|%21|EVET|%32|1|HAYIR|%21|EVET|%29|1|HAYIR|%21|EVET|%29|1|HAYIR|%21|EVET|%29|4|EVET|%28|EVET|%28|4|EVET|%28|EVET|%35|3|HAYIR|%21|EVET|%27|1|H
AYIR|%21|EVET|%31
298|2026-07-29 19:55:36|4|3/4|HAYIR|%39|%16|EVET|%22|%42|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%44|C•B|EVET|%45|%56|VADI_YON|FRAGMENTARY_2|VADI>D
ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%60|3|HAYIR|%26|EVET|%44|3|HAYIR|%13|EVET|%32|3|HAYIR|%33|EVET|%63|1|HAYIR|%13|EVET|%35|3|HAYIR|%26|EV
ET|%45|3|HAYIR|%26|EVET|%63|2|HAYIR|%20|EVET|%30|4|EVET|%20|EVET|%32|3|HAYIR|%20|EVET|%29|3|HAYIR|%33|EVET|%41|4|EVET|%33|EVET|%86|1|HAYIR|%2
0|EVET|%26|3|HAYIR|%20|EVET|%33
299|2026-07-29 19:55:36|4|4/3|HAYIR|%39|%16|HAYIR|%22|%40|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%38|T•B|HAYIR|%45|%64|TEPE_YON|FRAGMENTARY_2|VADI
>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%52|4|HAYIR|%25|EVET|%38|3|HAYIR|%12|EVET|%31|4|HAYIR|%31|EVET|%61|3|HAYIR|%12|EVET|%38|4|HAYIR|%25|
EVET|%45|4|HAYIR|%25|EVET|%58|3|HAYIR|%18|EVET|%33|3|HAYIR|%25|EVET|%36|3|HAYIR|%18|EVET|%28|4|HAYIR|%31|EVET|%38|4|HAYIR|%37|EVET|%76|4|HAYI
R|%18|EVET|%26|3|HAYIR|%18|EVET|%37
300|2026-07-29 19:55:37|2|4/1|HAYIR|%39|%16|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%36|T•B|EVET|%45|%55|TEPE_YON|FRAGMENTARY_2|TEPE>D
ONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%42|4|HAYIR|%23|EVET|%36|3|HAYIR|%11|EVET|%30|4|HAYIR|%29|EVET|%61|1|EVET|%11|EVET|%38|4|HAYIR|%23|EVE
T|%28|2|HAYIR|%23|EVET|%32|4|HAYIR|%17|EVET|%34|3|HAYIR|%23|EVET|%30|3|HAYIR|%17|EVET|%28|4|HAYIR|%29|EVET|%33|1|EVET|%35|EVET|%63|4|HAYIR|%1
7|EVET|%26|4|HAYIR|%17|EVET|%31
301|2026-07-29 19:55:38|1|1/4|HAYIR|%39|%16|EVET|%23|%45|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%69|T•B|EVET|%45|%52|TEPE_YON|FRAGMENTARY_2|VADI>D
ONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%58|1|HAYIR|%22|EVET|%69|3|HAYIR|%11|EVET|%30|1|HAYIR|%27|EVET|%100|3|HAYIR|%16|EVET|%38|1|HAYIR|%22|E
VET|%42|1|HAYIR|%22|EVET|%81|2|HAYIR|%16|EVET|%32|4|EVET|%22|EVET|%33|1|HAYIR|%16|EVET|%27|1|HAYIR|%27|EVET|%46|1|HAYIR|%38|EVET|%99|1|HAYIR|
%16|EVET|%26|1|HAYIR|%16|EVET|%41
302|2026-07-29 19:55:38|4|2/4|HAYIR|%39|%16|EVET|%23|%33|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%34|C•K|EVET|%45|%55|TEPE_YON|FRAGMENTARY_2|DONGU>
VADI>TEPE|PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%21|EVET|%34|3|HAYIR|%10|EVET|%30|2|HAYIR|%26|EVET|%55|4|EVET|%15|EVET|%46|4|EVET|%21|EVET|%28|
2|HAYIR|%21|EVET|%31|2|HAYIR|%15|EVET|%30|4|EVET|%26|EVET|%36|3|HAYIR|%15|EVET|%27|2|HAYIR|%26|EVET|%29|2|HAYIR|%36|EVET|%41|4|EVET|%15|EVET|
%26|4|EVET|%15|EVET|%33
303|2026-07-29 19:55:39|4|3/2|HAYIR|%39|%16|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%44|T•B|EVET|%46|%56|TEPE_YON|FRAGMENTARY_2|DONGU
>TEPE>TEPE||HAYIR|%76|3|HAYIR|%20|EVET|%44|4|HAYIR|%10|EVET|%30|3|HAYIR|%25|EVET|%57|1|EVET|%20|EVET|%32|1|EVET|%25|EVET|%41|3|HAYIR|%20|EVET
|%43|3|HAYIR|%15|EVET|%29|3|HAYIR|%30|EVET|%36|4|HAYIR|%15|EVET|%27|3|HAYIR|%25|EVET|%33|3|HAYIR|%35|EVET|%81|4|HAYIR|%20|EVET|%26|3|HAYIR|%2
0|EVET|%33
304|2026-07-29 19:55:42|1|3/4|EVET|%40|%16|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%36|T•K|EVET|%46|%56|TEPE_YON|FRAGMENTARY_2|DONGU_
TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%35|1|HAYIR|%19|EVET|%36|3|EVET|%9|EVET|%29|1|HAYIR|%23|EVET|%42|3|EVET|%23|EVET|%36|3|EVET|%28|EVET|%
43|3|EVET|%19|EVET|%32|4|HAYIR|%14|EVET|%34|4|HAYIR|%28|EVET|%27|1|HAYIR|%14|EVET|%26|2|HAYIR|%23|EVET|%28|3|EVET|%33|EVET|%59|3|EVET|%19|EVE
T|%26|1|HAYIR|%19|EVET|%32
305|2026-07-29 19:55:42|3|2/4|HAYIR|%40|%16|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%31|T•B|EVET|%46|%53|VADI_YON|FRAGMENTARY_2|DONGU_
TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%38|2|HAYIR|%18|EVET|%31|3|HAYIR|%13|EVET|%32|2|HAYIR|%22|EVET|%100|2|HAYIR|%27|EVET|%37|2|HAYIR|%31|E
VET|%42|2|HAYIR|%22|EVET|%55|4|EVET|%13|EVET|%31|4|EVET|%27|EVET|%36|1|HAYIR|%13|EVET|%28|2|HAYIR|%22|EVET|%39|2|HAYIR|%36|EVET|%85|3|HAYIR|%
22|EVET|%27|3|HAYIR|%18|EVET|%27
306|2026-07-29 19:55:43|4|4/3|HAYIR|%40|%16|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%35|T•B|HAYIR|%46|%53|VADI_YON|FRAGMENTARY_2|VADI
>VADI>VADI|PATTERN_BREAK:0,59|EVET|%44|3|HAYIR|%17|EVET|%35|3|HAYIR|%13|EVET|%32|3|HAYIR|%21|EVET|%82|4|HAYIR|%26|EVET|%31|3|HAYIR|%30|EVET|%
34|3|HAYIR|%21|EVET|%42|2|EVET|%17|EVET|%29|4|HAYIR|%30|EVET|%42|4|HAYIR|%13|EVET|%27|3|HAYIR|%21|EVET|%33|2|EVET|%34|EVET|%58|3|HAYIR|%21|EV
ET|%27|4|HAYIR|%17|EVET|%30
307|2026-07-29 19:55:44|2|2/4|EVET|%40|%17|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%30|C•B|EVET|%46|%52|VADI_YON|FRAGMENTARY_2|TEPE>T
EPE>VADI|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%16|EVET|%30|3|HAYIR|%12|EVET|%31|1|HAYIR|%20|EVET|%45|4|HAYIR|%25|EVET|%34|3|HAYIR|%29|EVET|%31
|2|EVET|%20|EVET|%32|4|HAYIR|%20|EVET|%34|4|HAYIR|%29|EVET|%27|4|HAYIR|%12|EVET|%27|3|HAYIR|%20|EVET|%25|1|HAYIR|%37|EVET|%84|3|HAYIR|%20|EVE
T|%26|4|HAYIR|%16|EVET|%29
308|2026-07-29 19:55:46|2|3/4|HAYIR|%40|%16|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%42|T•B|EVET|%46|%59|TEPE_YON|FRAGMENTARY_2|BLOK_
TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%64|3|HAYIR|%16|EVET|%42|3|HAYIR|%12|EVET|%32|3|HAYIR|%20|EVET|%40|3|HAYIR|%24|EVET|%51|2|HAYIR|%28|EV
ET|%43|3|HAYIR|%24|EVET|%39|3|HAYIR|%20|EVET|%34|3|HAYIR|%28|EVET|%38|4|HAYIR|%12|EVET|%26|3|HAYIR|%20|EVET|%36|3|HAYIR|%36|EVET|%72|3|HAYIR|
%20|EVET|%26|3|HAYIR|%16|EVET|%35
309|2026-07-29 19:55:46|1|3/1|HAYIR|%40|%16|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%23|%38|C•B|HAYIR|%46|%54|VADI_YON|FRAGMENTARY_2|VADI>T
EPE>VADI|PATTERN_BREAK:0,59|EVET|%41|1|EVET|%15|EVET|%38|3|HAYIR|%11|EVET|%30|2|HAYIR|%19|EVET|%39|4|HAYIR|%23|EVET|%32|3|HAYIR|%26|EVET|%43|
1|EVET|%23|EVET|%33|4|HAYIR|%19|EVET|%33|1|EVET|%26|EVET|%31|1|EVET|%11|EVET|%26|3|HAYIR|%19|EVET|%29|3|HAYIR|%34|EVET|%68|3|HAYIR|%19|EVET|%
26|1|EVET|%15|EVET|%36
310|2026-07-29 19:55:47|1|3/1|EVET|%40|%17|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%24|%50|T•K|EVET|%46|%53|DONGU_TERS_YON|FRAGMENTARY_2|V
ADI>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%68|3|EVET|%18|EVET|%50|3|EVET|%11|EVET|%30|3|EVET|%18|EVET|%35|3|EVET|%22|EVET|%46|2|HAYIR|%25|E
VET|%43|3|EVET|%25|EVET|%43|3|EVET|%18|EVET|%39|3|EVET|%29|EVET|%33|1|HAYIR|%14|EVET|%28|3|EVET|%18|EVET|%36|3|EVET|%33|EVET|%86|3|EVET|%18|E
VET|%26|3|EVET|%18|EVET|%38
311|2026-07-29 19:55:49|3|1/4|HAYIR|%40|%17|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%32|C•K|HAYIR|%46|%52|TEPE_YON|FRAGMENTARY_2|TEPE
>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%35|1|HAYIR|%21|EVET|%32|3|EVET|%14|EVET|%31|1|HAYIR|%21|EVET|%47|2|HAYIR|%25|EVET|%29|1|HAYIR|%25|EVET|%3
0|1|HAYIR|%28|EVET|%36|4|HAYIR|%21|EVET|%33|4|HAYIR|%32|EVET|%27|1|HAYIR|%14|EVET|%27|1|HAYIR|%21|EVET|%30|3|EVET|%35|EVET|%37|1|HAYIR|%21|EV
ET|%26|4|HAYIR|%21|EVET|%32
312|2026-07-29 19:55:49|3|2/3|EVET|%40|%17|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%24|%48|T•K|EVET|%46|%52|TEPE_YON|FRAGMENTARY_2|TEPE>TE
PE>TEPE|PATTERN_BREAK:0,59|EVET|%42|2|EVET|%20|EVET|%48|3|HAYIR|%17|EVET|%31|2|EVET|%20|EVET|%65|2|EVET|%24|EVET|%41|2|EVET|%24|EVET|%34|2|EV
ET|%27|EVET|%52|2|EVET|%20|EVET|%36|3|HAYIR|%31|EVET|%37|1|HAYIR|%13|EVET|%27|2|EVET|%20|EVET|%39|2|EVET|%37|EVET|%73|4|HAYIR|%20|EVET|%26|1|
HAYIR|%20|EVET|%31
313|2026-07-29 19:55:51|2|3|HAYIR|%40|%17|HAYIR|%23|%71|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%44|T•B|HAYIR|%46|%51|DONGU_YON|FRAGMENTARY_2|DALGA
_TEK_SIM_1>VADI>DONGU||HAYIR|%66|3|HAYIR|%23|EVET|%44|3|HAYIR|%16|EVET|%30|3|HAYIR|%23|EVET|%42|2|EVET|%26|EVET|%34|3|HAYIR|%26|EVET|%44|3|HA
YIR|%30|EVET|%60|4|HAYIR|%23|EVET|%33|1|HAYIR|%30|EVET|%26|3|HAYIR|%13|EVET|%26|3|HAYIR|%23|EVET|%34|3|HAYIR|%40|EVET|%83|1|HAYIR|%20|EVET|%2
6|4|HAYIR|%20|EVET|%27
314|2026-07-29 19:55:51|2|3/4|HAYIR|%40|%17|EVET|%23|%39|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%37|C•B|EVET|%46|%53|DONGU_YON|FRAGMENTARY_2|BLOK_
DUZ>VADI>DONGU||HAYIR|%47|3|HAYIR|%22|EVET|%37|3|HAYIR|%16|EVET|%29|4|EVET|%22|EVET|%46|4|EVET|%29|EVET|%33|2|HAYIR|%25|EVET|%25|1|HAYIR|%29|
EVET|%28|3|HAYIR|%22|EVET|%29|3|HAYIR|%29|EVET|%37|2|HAYIR|%12|EVET|%25|3|HAYIR|%22|EVET|%28|4|EVET|%38|EVET|%45|1|HAYIR|%19|EVET|%26|1|HAYIR
|%19|EVET|%33
315|2026-07-29 19:56:09|4|1/2|HAYIR|%40|%17|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%38|T•K|EVET|%46|%51|DONGU_YON|FRAGMENTARY_2|BLOK
_DUZ>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%55|1|HAYIR|%21|EVET|%38|4|HAYIR|%15|EVET|%30|4|HAYIR|%25|EVET|%49|1|HAYIR|%31|EVET|%29|1|HAYIR|%25|E
VET|%41|1|HAYIR|%28|EVET|%52|2|HAYIR|%21|EVET|%33|4|HAYIR|%28|EVET|%27|2|HAYIR|%12|EVET|%26|1|HAYIR|%21|EVET|%28|1|HAYIR|%40|EVET|%37|4|HAYIR
|%18|EVET|%26|4|HAYIR|%18|EVET|%27
316|2026-07-29 19:56:10|3|4/2|HAYIR|%40|%17|EVET|%23|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%33|C•K|EVET|%47|%51|DONGU_YON|FRAGMENTARY_2|TEPE>
TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%30|3|HAYIR|%21|EVET|%33|3|HAYIR|%15|EVET|%29|4|HAYIR|%24|EVET|%69|2|EVET|%30|EVET|%35|3|HAYIR|%24|EVET|%4
4|3|HAYIR|%27|EVET|%45|4|HAYIR|%21|EVET|%33|2|EVET|%27|EVET|%32|1|HAYIR|%12|EVET|%26|4|HAYIR|%21|EVET|%28|4|HAYIR|%39|EVET|%66|4|HAYIR|%18|EV
ET|%26|1|HAYIR|%18|EVET|%30
317|2026-07-29 19:56:12|2|4/2|HAYIR|%40|%17|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%37|C•K|HAYIR|%47|%55|TEPE_YON|FRAGMENTARY_2|BLOK
_TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%46|2|HAYIR|%20|EVET|%37|3|EVET|%14|EVET|%30|2|HAYIR|%23|EVET|%77|4|HAYIR|%32|EVET|%46|2|HAYIR|%23|EV
ET|%44|2|HAYIR|%26|EVET|%45|4|HAYIR|%20|EVET|%33|4|HAYIR|%29|EVET|%31|4|HAYIR|%11|EVET|%27|2|HAYIR|%20|EVET|%34|3|EVET|%38|EVET|%46|3|EVET|%1
7|EVET|%27|2|HAYIR|%17|EVET|%30
318|2026-07-29 19:56:16|3|2/4|EVET|%40|%17|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|%41|T•B|HAYIR|%46|%54|DONGU_YON|FRAGMENTARY_2|VADI>
DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%53|2|EVET|%20|EVET|%41|3|HAYIR|%17|EVET|%28|4|HAYIR|%22|EVET|%36|2|EVET|%31|EVET|%35|2|EVET|%22|EVE
T|%44|2|EVET|%25|EVET|%52|4|HAYIR|%20|EVET|%31|4|HAYIR|%28|EVET|%34|2|EVET|%11|EVET|%26|2|EVET|%20|EVET|%35|2|EVET|%40|EVET|%78|3|HAYIR|%20|E
VET|%27|4|HAYIR|%17|EVET|%29
319|2026-07-29 19:56:17|2|4/2|EVET|%41|%17|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%24|%35|C•B|EVET|%47|%61|VADI_YON|FRAGMENTARY_2|VADI>T
EPE>VADI|PATTERN_BREAK:0,59|EVET|%44|2|HAYIR|%22|EVET|%35|3|HAYIR|%16|EVET|%36|2|HAYIR|%22|EVET|%42|2|HAYIR|%33|EVET|%41|2|HAYIR|%25|EVET|%44
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 320 ve sonrası)

```
↳ |2|HAYIR|%27|EVET|%38|4|EVET|%19|EVET|%31|2|HAYIR|%27|EVET|%30|3|HAYIR|%13|EVET|%26|2|HAYIR|%22|EVET|%34|4|EVET|%41|EVET|%68|3|HAYIR|%19|EVET
↳ |%27|3|HAYIR|%16|EVET|%29
321 320|2026-07-29 19:56:18|4|1/2|HAYIR|%40|%17|HAYIR|%23|%46|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%24|%39|T•K|EVET|%47|%57|TEPE_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_3>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%60|3|EVET|%21|EVET|%39|3|EVET|%16|EVET|%30|3|EVET|%21|EVET|%56|1|HAYIR|%32|EVET|%36|3|EVET|%24|E
↳ VET|%44|3|EVET|%27|EVET|%43|2|HAYIR|%21|EVET|%32|2|HAYIR|%27|EVET|%37|3|EVET|%13|EVET|%27|3|EVET|%21|EVET|%31|1|HAYIR|%43|EVET|%79|3|EVET|%18
↳ |EVET|%27|3|EVET|%16|EVET|%26
322 321|2026-07-29 19:56:22|3|4|HAYIR|%40|%17|HAYIR|%23|%65|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%42|C•B|EVET|%47|%51|DONGU_YON|FRAGMENTARY_2|VADI>D
↳ ONGU>DONGU||HAYIR|%61|4|HAYIR|%23|EVET|%42|2|EVET|%18|EVET|%27|4|HAYIR|%23|EVET|%67|2|EVET|%31|EVET|%40|4|HAYIR|%26|EVET|%44|4|HAYIR|%28|EVET
↳ |%69|2|EVET|%21|EVET|%32|2|EVET|%26|EVET|%33|2|EVET|%15|EVET|%27|4|HAYIR|%23|EVET|%39|4|HAYIR|%42|EVET|%63|3|HAYIR|%21|EVET|%27|1|HAYIR|%18|E
↳ VET|%27
323 322|2026-07-29 19:56:24|2|3/4|HAYIR|%41|%17|EVET|%23|%55|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%24|%44|C•B|EVET|%47|%52|ZIGZAK_KOM_SALINIMM|FRAGMENTA
↳ RY_2|VADI>DONGU>ZIGZAK_KOM||HAYIR|%58|3|HAYIR|%23|EVET|%44|3|HAYIR|%20|EVET|%29|3|HAYIR|%23|EVET|%55|4|EVET|%33|EVET|%42|2|HAYIR|%25|EVET|%32
↳ |3|HAYIR|%28|EVET|%42|4|EVET|%23|EVET|%34|2|HAYIR|%28|EVET|%31|4|EVET|%17|EVET|%27|3|HAYIR|%23|EVET|%32|3|HAYIR|%41|EVET|%65|3|HAYIR|%20|EVET
↳ |%27|4|EVET|%17|EVET|%29
324 323|2026-07-29 19:56:25|4|1/2|HAYIR|%41|%17|EVET|%23|%59|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%32|T•B|HAYIR|%47|%55|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >DONGU>DONGU||HAYIR|%69|3|HAYIR|%22|EVET|%32|2|EVET|%20|EVET|%29|3|HAYIR|%22|EVET|%55|1|HAYIR|%35|EVET|%37|2|EVET|%25|EVET|%28|1|HAYIR|%27|EV
↳ ET|%42|3|HAYIR|%25|EVET|%31|2|EVET|%27|EVET|%33|3|HAYIR|%20|EVET|%29|2|EVET|%22|EVET|%29|1|HAYIR|%40|EVET|%71|3|HAYIR|%20|EVET|%27|3|HAYIR|%2
↳ 0|EVET|%31
325 324|2026-07-29 19:56:26|2|4/3|HAYIR|%41|%17|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%40|T•B|EVET|%47|%64|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%36|4|HAYIR|%21|EVET|%40|3|HAYIR|%21|EVET|%27|4|HAYIR|%21|EVET|%81|3|HAYIR|%34|EVET|%33|4|HAYIR|%26|EVET
↳ |%32|4|HAYIR|%26|EVET|%46|4|HAYIR|%24|EVET|%36|2|HAYIR|%29|EVET|%32|4|HAYIR|%19|EVET|%29|4|HAYIR|%24|EVET|%37|4|HAYIR|%39|EVET|%61|4|HAYIR|%1
↳ 9|EVET|%26|2|HAYIR|%19|EVET|%30
326 325|2026-07-29 19:56:27|1|1/4|HAYIR|%40|%17|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%23|%56|C•B|EVET|%47|%55|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_TERS>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%44|1|HAYIR|%21|EVET|%56|4|HAYIR|%21|EVET|%26|1|HAYIR|%21|EVET|%58|4|HAYIR|%33|EVET|%48|1|
↳ HAYIR|%26|EVET|%35|1|HAYIR|%26|EVET|%68|4|HAYIR|%23|EVET|%31|4|HAYIR|%28|EVET|%34|3|EVET|%19|EVET|%27|1|HAYIR|%23|EVET|%33|1|HAYIR|%38|EVET|%
↳ 99|4|HAYIR|%19|EVET|%25|1|HAYIR|%19|EVET|%41
327 326|2026-07-29 19:56:30|3|3/4|HAYIR|%40|%17|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%23|%36|C•B|EVET|%48|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_TERS>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%33|3|HAYIR|%20|EVET|%36|3|HAYIR|%20|EVET|%29|1|HAYIR|%20|EVET|%48|4|HAYIR|%32|EVET|%35|2
↳ |EVET|%25|EVET|%32|3|HAYIR|%25|EVET|%33|2|EVET|%23|EVET|%34|4|HAYIR|%27|EVET|%29|2|EVET|%20|EVET|%29|2|EVET|%23|EVET|%28|3|HAYIR|%37|EVET|%63
↳ |4|HAYIR|%18|EVET|%26|3|HAYIR|%18|EVET|%29
328 327|2026-07-29 19:56:30|2|3/4|HAYIR|%40|%17|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%23|%36|C•K|EVET|%48|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%41|3|HAYIR|%20|EVET|%36|2|EVET|%20|EVET|%28|1|HAYIR|%20|EVET|%63|4|HAYIR|%31|EVET|%44|1|HAYIR|
↳ %27|EVET|%40|3|HAYIR|%25|EVET|%35|4|HAYIR|%25|EVET|%34|4|HAYIR|%27|EVET|%26|4|HAYIR|%22|EVET|%28|1|HAYIR|%25|EVET|%27|3|HAYIR|%36|EVET|%92|4|
↳ HAYIR|%18|EVET|%25|4|HAYIR|%18|EVET|%33
329 328|2026-07-29 19:56:31|2|4/2|HAYIR|%40|%17|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%30|C•B|HAYIR|%48|%62|DONGU_YON|FRAGMENTARY_2|BLO
↳ K_DUZ>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%60|3|HAYIR|%20|EVET|%30|3|HAYIR|%22|EVET|%28|4|HAYIR|%20|EVET|%52|4|HAYIR|%31|EVET|%39|4|HAYIR|%26|
↳ EVET|%28|4|HAYIR|%24|EVET|%32|4|HAYIR|%24|EVET|%28|3|HAYIR|%26|EVET|%40|4|HAYIR|%22|EVET|%28|4|HAYIR|%24|EVET|%31|4|HAYIR|%35|EVET|%57|4|HAYI
↳ R|%17|EVET|%25|1|EVET|%17|EVET|%30
330 329|2026-07-29 19:56:32|1|3/1|HAYIR|%40|%17|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%39|C•B|EVET|%48|%51|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%28|1|HAYIR|%19|EVET|%39|2|EVET|%21|EVET|%31|2|EVET|%19|EVET|%35|4|HAYIR|%30|EVET|%31|2|EVET|%26|EVET|%46|
↳ 2|EVET|%23|EVET|%45|2|EVET|%23|EVET|%30|1|HAYIR|%26|EVET|%27|3|HAYIR|%21|EVET|%28|2|EVET|%23|EVET|%31|3|HAYIR|%34|EVET|%49|1|HAYIR|%17|EVET|%
↳ 25|1|HAYIR|%19|EVET|%37
331 330|2026-07-29 19:56:33|2|2/3|HAYIR|%40|%17|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%42|C•B|EVET|%48|%57|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>ZIGZAK_KOM>VADI|PATTERN_BREAK:0,59|EVET|%26|2|HAYIR|%19|EVET|%42|3|HAYIR|%23|EVET|%39|3|HAYIR|%21|EVET|%35|1|HAYIR|%29|EVET|%43|2|HAYIR|
↳ %27|EVET|%46|2|HAYIR|%25|EVET|%60|4|EVET|%25|EVET|%33|2|HAYIR|%25|EVET|%32|4|EVET|%21|EVET|%27|2|HAYIR|%25|EVET|%32|3|HAYIR|%34|EVET|%39|3|HA
↳ YIR|%17|EVET|%26|4|EVET|%19|EVET|%34
332 331|2026-07-29 19:56:34|4|2/1|HAYIR|%40|%17|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%29|T•B|EVET|%48|%53|VADI_YON|FRAGMENTARY_2|VADI>D
↳ ONGU>VADI|PATTERN_BREAK:0,59|EVET|%27|3|HAYIR|%18|EVET|%29|2|HAYIR|%22|EVET|%32|4|HAYIR|%20|EVET|%57|1|EVET|%29|EVET|%39|4|HAYIR|%27|EVET|%26
↳ |1|EVET|%25|EVET|%28|2|HAYIR|%27|EVET|%34|2|HAYIR|%25|EVET|%40|3|HAYIR|%22|EVET|%28|4|HAYIR|%25|EVET|%26|1|EVET|%33|EVET|%68|3|HAYIR|%16|EVET
↳ |%26|3|HAYIR|%20|EVET|%29
333 332|2026-07-29 19:56:35|1|2/4|HAYIR|%40|%16|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%23|%33|C•K|EVET|%48|%54|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%31|4|HAYIR|%18|EVET|%33|3|HAYIR|%22|EVET|%27|4|HAYIR|%20|EVET|%51|2|HAYIR|%30|EVET|%36|4|HAYI
↳ R|%26|EVET|%31|1|EVET|%26|EVET|%35|2|HAYIR|%26|EVET|%32|2|HAYIR|%24|EVET|%33|3|HAYIR|%22|EVET|%28|4|HAYIR|%24|EVET|%28|2|HAYIR|%34|EVET|%56|3
↳ |HAYIR|%16|EVET|%26|1|EVET|%20|EVET|%29
334 333|2026-07-29 19:56:36|1|3/1|HAYIR|%40|%16|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%58|T•B|HAYIR|%48|%58|VADI_YON|FRAGMENTARY_2|TEPE
↳ >DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%54|3|HAYIR|%18|EVET|%58|2|EVET|%22|EVET|%30|3|HAYIR|%20|EVET|%62|3|HAYIR|%30|EVET|%45|3|HAYIR|%26|E
↳ VET|%43|3|HAYIR|%28|EVET|%72|3|HAYIR|%26|EVET|%42|3|HAYIR|%24|EVET|%33|1|HAYIR|%22|EVET|%27|3|HAYIR|%24|EVET|%46|3|HAYIR|%34|EVET|%85|3|HAYIR
↳ |%16|EVET|%26|3|HAYIR|%22|EVET|%43
335 334|2026-07-29 19:56:39|2|3/4|EVET|%40|%17|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%38|C•B|EVET|%48|%51|VADI_YON|FRAGMENTARY_2|VADI>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%49|4|HAYIR|%17|EVET|%38|3|EVET|%23|EVET|%27|3|EVET|%19|EVET|%51|3|EVET|%29|EVET|%40|2|HAYIR|%25|EVET|
↳ %30|4|HAYIR|%27|EVET|%29|4|HAYIR|%25|EVET|%35|4|HAYIR|%23|EVET|%27|4|HAYIR|%21|EVET|%28|3|EVET|%23|EVET|%29|1|HAYIR|%33|EVET|%44|3|EVET|%15|E
↳ VET|%26|4|HAYIR|%21|EVET|%39
336 335|2026-07-29 19:56:39|3|2/1|HAYIR|%40|%17|EVET|%23|%36|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%42|C•K|EVET|%48|%60|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%60|2|HAYIR|%17|EVET|%42|2|HAYIR|%25|EVET|%32|2|HAYIR|%21|EVET|%44|3|HAYIR|%30|EVET|%32|1
↳ |EVET|%25|EVET|%41|1|EVET|%26|EVET|%50|2|HAYIR|%25|EVET|%36|2|HAYIR|%23|EVET|%43|2|HAYIR|%21|EVET|%30|2|HAYIR|%25|EVET|%33|1|EVET|%32|EVET|%7
↳ 8|3|HAYIR|%17|EVET|%26|2|HAYIR|%21|EVET|%35
337 336|2026-07-29 19:56:41|1|2/3|EVET|%40|%17|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%23|%48|C•K|EVET|%49|%54|DONGU_TERS_YON|FRAGMENTARY_2|D
↳ ONGU>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|2|EVET|%16|EVET|%48|3|HAYIR|%24|EVET|%27|2|EVET|%20|EVET|%40|3|HAYIR|%30|EVET|%32|2|EVET|%2
↳ 6|EVET|%46|2|EVET|%28|EVET|%56|2|EVET|%24|EVET|%32|2|EVET|%22|EVET|%31|2|EVET|%20|EVET|%27|2|EVET|%24|EVET|%37|2|EVET|%33|EVET|%58|3|HAYIR|%1
↳ 6|EVET|%26|2|EVET|%20|EVET|%36
338 337|2026-07-29 19:56:44|2|4/2|EVET|%40|%17|HAYIR|%23|%52|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|%43|C•B|EVET|%49|%58|TEPE_YON|FRAGMENTARY_2|DONGU>T
↳ EPE>TEPE||HAYIR|%72|4|EVET|%18|EVET|%43|2|HAYIR|%24|EVET|%31|4|EVET|%22|EVET|%57|2|HAYIR|%29|EVET|%48|2|HAYIR|%27|EVET|%46|4|EVET|%29|EVET|%3
↳ 9|4|EVET|%25|EVET|%33|2|HAYIR|%24|EVET|%30|4|EVET|%22|EVET|%28|2|HAYIR|%25|EVET|%31|4|EVET|%35|EVET|%74|1|HAYIR|%16|EVET|%26|4|EVET|%22|EVET|
↳ %36
339 338|2026-07-29 19:56:44|4|4/3|HAYIR|%41|%17|EVET|%23|%31|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%23|%33|C•B|EVET|%49|%54|VADI_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%39|4|HAYIR|%20|EVET|%33|3|EVET|%23|EVET|%28|4|HAYIR|%23|EVET|%61|2|HAYIR|%29|EVET|%41|4|HAYIR|%27|EVET|%43|
↳ 4|HAYIR|%30|EVET|%55|2|HAYIR|%27|EVET|%32|2|HAYIR|%23|EVET|%39|3|EVET|%23|EVET|%27|4|HAYIR|%25|EVET|%34|1|HAYIR|%36|EVET|%76|1|HAYIR|%16|EVET
↳ |%25|3|EVET|%23|EVET|%27
340 339|2026-07-29 19:56:46|3|2/1|HAYIR|%41|%17|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%36|C•K|HAYIR|%49|%55|TEPE_YON|FRAGMENTARY_2|VADI
↳ >VADI>TEPE|PATTERN_BREAK:0,59|EVET|%69|2|HAYIR|%19|EVET|%36|2|HAYIR|%25|EVET|%31|2|HAYIR|%23|EVET|%43|2|HAYIR|%28|EVET|%35|1|HAYIR|%26|EVET|%
↳ 41|2|HAYIR|%30|EVET|%33|2|HAYIR|%26|EVET|%35|2|HAYIR|%23|EVET|%37|2|HAYIR|%25|EVET|%30|2|HAYIR|%25|EVET|%33|4|HAYIR|%35|EVET|%58|1|HAYIR|%16|
↳ EVET|%26|2|HAYIR|%25|EVET|%32
341 340|2026-07-29 19:56:47|3|2/1|EVET|%41|%17|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%29|C•B|EVET|%49|%53|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%19|EVET|%29|3|HAYIR|%24|EVET|%29|1|HAYIR|%22|EVET|%39|2|EVET|%28|EVET|%51|4|HAYIR|%26|EV
↳ ET|%43|4|HAYIR|%29|EVET|%37|2|EVET|%26|EVET|%43|3|HAYIR|%22|EVET|%34|2|EVET|%24|EVET|%29|2|EVET|%24|EVET|%29|3|HAYIR|%35|EVET|%79|1|HAYIR|%15
↳ |EVET|%25|2|EVET|%24|EVET|%30
342 341|2026-07-29 19:56:48|2|4/2|EVET|%41|%18|HAYIR|%23|%54|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|%33|C•K|EVET|%49|%54|TEPE_YON|FRAGMENTARY_2|TEPE>VA
↳ DI>TEPE||HAYIR|%81|4|EVET|%18|EVET|%33|2|HAYIR|%24|EVET|%31|3|HAYIR|%22|EVET|%57|2|HAYIR|%29|EVET|%34|4|EVET|%25|EVET|%42|4|EVET|%29|EVET|%40
↳ |4|EVET|%27|EVET|%35|3|HAYIR|%22|EVET|%29|4|EVET|%25|EVET|%29|4|EVET|%25|EVET|%30|3|HAYIR|%34|EVET|%83|1|HAYIR|%15|EVET|%25|4|EVET|%25|EVET|%
↳ 32
343 342|2026-07-29 19:56:49|4|3/1|HAYIR|%41|%18|EVET|%23|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%31|C•K|EVET|%49|%51|VADI_YON|FRAGMENTARY_2|VADI>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%65|2|HAYIR|%20|EVET|%31|3|HAYIR|%23|EVET|%31|2|HAYIR|%22|EVET|%42|1|EVET|%28|EVET|%41|1|EVET|%27|EVET|%40|1
↳ |EVET|%30|EVET|%45|3|HAYIR|%28|EVET|%31|2|HAYIR|%22|EVET|%31|3|HAYIR|%27|EVET|%29|2|HAYIR|%27|EVET|%30|1|EVET|%33|EVET|%68|1|EVET|%15|EVET|%2
↳ 5|3|HAYIR|%27|EVET|%31
344 343|2026-07-29 19:56:50|1|2/1|HAYIR|%41|%18|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%37|C•B|EVET|%50|%51|TEPE_YON|FRAGMENTARY_2|DONGU
↳ >DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%43|1|HAYIR|%20|EVET|%37|2|HAYIR|%23|EVET|%29|2|HAYIR|%21|EVET|%41|2|HAYIR|%30|EVET|%34|2|HAYIR|%28|
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 344 ve sonrası)

```
EVET|%46|2|HAYIR|%31|EVET|%52|2|HAYIR|%28|EVET|%34|1|HAYIR|%21|EVET|%30|2|HAYIR|%26|EVET|%28|2|HAYIR|%26|EVET|%36|1|HAYIR|%35|EVET|%50|3|EVET
|%16|EVET|%26|1|HAYIR|%26|EVET|%35
344|2026-07-29 19:56:51|3|2/3|HAYIR|%41|%17|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|%36|C•K|EVET|%50|%56|TEPE_YON|FRAGMENTARY_2|TEPE>D
ONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%43|4|EVET|%19|EVET|%36|3|HAYIR|%22|EVET|%28|4|EVET|%21|EVET|%91|2|HAYIR|%29|EVET|%42|2|HAYIR|%27|EVET
|%33|4|EVET|%31|EVET|%40|2|HAYIR|%27|EVET|%34|2|HAYIR|%21|EVET|%31|2|HAYIR|%26|EVET|%30|4|EVET|%26|EVET|%33|2|HAYIR|%34|EVET|%78|3|HAYIR|%18|
EVET|%26|3|HAYIR|%26|EVET|%27
345|2026-07-29 19:56:54|4|2/3|HAYIR|%41|%17|EVET|%23|%48|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%53|C•K|HAYIR|%50|%58|VADI_YON|FRAGMENTARY_2|BLOK_
TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%68|2|HAYIR|%20|EVET|%53|4|HAYIR|%22|EVET|%27|2|HAYIR|%22|EVET|%74|2|HAYIR|%29|EVET|%30|2|HAYIR|%27|EV
ET|%45|2|HAYIR|%32|EVET|%69|3|EVET|%27|EVET|%30|2|HAYIR|%20|EVET|%26|3|EVET|%25|EVET|%28|2|HAYIR|%27|EVET|%43|2|HAYIR|%33|EVET|%72|3|EVET|%17
|EVET|%26|2|HAYIR|%25|EVET|%31
346|2026-07-29 19:56:54|3|3/1|EVET|%41|%18|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%23|%29|C•K|HAYIR|%49|%53|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%42|3|EVET|%20|EVET|%29|3|EVET|%22|EVET|%29|1|HAYIR|%22|EVET|%46|4|HAYIR|%28|EVET|%41|2|HAYIR|%2
6|EVET|%28|1|HAYIR|%31|EVET|%26|2|HAYIR|%28|EVET|%33|2|HAYIR|%20|EVET|%32|2|HAYIR|%26|EVET|%30|2|HAYIR|%26|EVET|%26|3|EVET|%33|EVET|%65|3|EVE
T|%19|EVET|%27|2|HAYIR|%25|EVET|%30
347|2026-07-29 19:56:55|3|2/1|HAYIR|%41|%18|EVET|%23|%54|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%38|C•K|EVET|%50|%59|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>TEPE>DONGU_TERS||HAYIR|%78|2|HAYIR|%21|EVET|%38|2|HAYIR|%23|EVET|%27|1|EVET|%21|EVET|%44|2|HAYIR|%28|EVET|%56|2|HAYIR|%26|EVET|%32|2|HAY
IR|%31|EVET|%37|2|HAYIR|%28|EVET|%45|3|HAYIR|%20|EVET|%37|2|HAYIR|%26|EVET|%29|2|HAYIR|%26|EVET|%34|3|HAYIR|%34|EVET|%73|3|HAYIR|%20|EVET|%27
|2|HAYIR|%25|EVET|%35
348|2026-07-29 19:56:57|1|3/2|HAYIR|%41|%18|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%44|T•B|EVET|%50|%53|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|3|HAYIR|%21|EVET|%44|3|HAYIR|%23|EVET|%30|3|HAYIR|%23|EVET|%71|2|HAYIR|%27|EVET|%42|3|HAYIR
|%26|EVET|%45|3|HAYIR|%30|EVET|%67|2|HAYIR|%27|EVET|%32|3|HAYIR|%20|EVET|%33|3|HAYIR|%26|EVET|%28|3|HAYIR|%26|EVET|%42|2|HAYIR|%33|EVET|%98|3
|HAYIR|%20|EVET|%27|2|HAYIR|%24|EVET|%40
349|2026-07-29 19:56:58|4|4/1|HAYIR|%41|%18|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%41|C•B|EVET|%50|%51|VADI_YON|FRAGMENTARY_2|TEPE>
TEPE>VADI|PATTERN_BREAK:0,59|EVET|%52|4|HAYIR|%21|EVET|%41|2|HAYIR|%22|EVET|%27|4|HAYIR|%22|EVET|%52|4|HAYIR|%27|EVET|%43|4|HAYIR|%25|EVET|%3
1|4|HAYIR|%30|EVET|%43|3|EVET|%27|EVET|%32|4|HAYIR|%19|EVET|%29|3|EVET|%25|EVET|%30|4|HAYIR|%25|EVET|%34|4|HAYIR|%33|EVET|%61|3|EVET|%19|EVET
|%27|4|HAYIR|%24|EVET|%36
350|2026-07-29 19:56:58|3|2/3|EVET|%41|%18|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%23|%34|T•K|EVET|%50|%54|TEPE_YON|FRAGMENTARY_2|VADI>VA
DI>TEPE|PATTERN_BREAK:0,59|EVET|%42|2|EVET|%20|EVET|%34|3|HAYIR|%22|EVET|%31|2|EVET|%22|EVET|%66|3|HAYIR|%26|EVET|%33|2|EVET|%25|EVET|%44|2|E
VET|%29|EVET|%49|2|EVET|%28|EVET|%32|3|HAYIR|%19|EVET|%30|2|EVET|%26|EVET|%28|2|EVET|%25|EVET|%37|3|HAYIR|%32|EVET|%71|4|HAYIR|%20|EVET|%25|3
|HAYIR|%23|EVET|%32
351|2026-07-29 19:57:00|2|2/4|EVET|%42|%18|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%24|%34|C•B|EVET|%50|%62|DONGU_YON|FRAGMENTARY_2|BLOK_D
UZ>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%39|2|EVET|%22|EVET|%34|3|HAYIR|%22|EVET|%27|2|EVET|%23|EVET|%56|4|HAYIR|%26|EVET|%37|2|EVET|%26|EVET|%
45|2|EVET|%30|EVET|%60|4|HAYIR|%29|EVET|%36|4|HAYIR|%19|EVET|%27|4|HAYIR|%27|EVET|%30|2|EVET|%26|EVET|%34|3|HAYIR|%32|EVET|%64|4|HAYIR|%20|EV
ET|%25|4|HAYIR|%23|EVET|%35
352|2026-07-29 19:57:01|2|1/4|HAYIR|%42|%18|EVET|%23|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%50|T•B|EVET|%50|%58|BLOK_TERS_TEKRAR|FRAGMENTARY_
2|TEPE>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%47|1|HAYIR|%23|EVET|%50|3|HAYIR|%21|EVET|%29|4|EVET|%24|EVET|%40|4|EVET|%26|
EVET|%40|1|HAYIR|%27|EVET|%40|1|HAYIR|%31|EVET|%64|1|HAYIR|%28|EVET|%29|3|HAYIR|%18|EVET|%38|4|EVET|%27|EVET|%30|1|HAYIR|%27|EVET|%35|4|EVET|
%31|EVET|%53|4|EVET|%20|EVET|%25|1|HAYIR|%23|EVET|%34
353|2026-07-29 19:57:04|4|3/2|HAYIR|%42|%18|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%41|T•B|EVET|%50|%63|VADI_YON|FRAGMENTARY_2|DONGU
_TERS>VADI>VADI|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%22|EVET|%41|2|HAYIR|%21|EVET|%27|2|HAYIR|%25|EVET|%33|3|HAYIR|%27|EVET
|%31|3|HAYIR|%27|EVET|%32|3|HAYIR|%31|EVET|%44|3|HAYIR|%28|EVET|%34|3|HAYIR|%18|EVET|%33|3|HAYIR|%28|EVET|%31|3|HAYIR|%27|EVET|%34|3|HAYIR|%3
2|EVET|%43|4|HAYIR|%21|EVET|%25|3|HAYIR|%22|EVET|%31
354|2026-07-29 19:57:04|1|3/2|HAYIR|%41|%18|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%30|C•K|EVET|%51|%57|VADI_YON|FRAGMENTARY_2|VADI>
DONGU_TERS>VADI||HAYIR|%50|1|HAYIR|%22|EVET|%30|3|HAYIR|%21|EVET|%29|2|HAYIR|%25|EVET|%29|3|HAYIR|%26|EVET|%42|2|HAYIR|%26|EVET|%45|2|HAYIR|%
30|EVET|%49|2|HAYIR|%28|EVET|%31|2|HAYIR|%18|EVET|%32|3|HAYIR|%28|EVET|%27|2|HAYIR|%26|EVET|%32|1|HAYIR|%32|EVET|%49|4|EVET|%21|EVET|%25|1|HA
YIR|%22|EVET|%31
355|2026-07-29 19:57:05|4|4/3|HAYIR|%41|%18|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%39|C•B|EVET|%51|%61|TEPE_YON|FRAGMENTARY_2|TEPE>
DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%41|4|HAYIR|%22|EVET|%39|2|EVET|%20|EVET|%28|4|HAYIR|%25|EVET|%63|3|HAYIR|%26|EVET|%33|3|HAYIR|%26|EV
ET|%32|3|HAYIR|%30|EVET|%39|3|HAYIR|%27|EVET|%33|2|EVET|%18|EVET|%28|3|HAYIR|%27|EVET|%31|4|HAYIR|%26|EVET|%32|3|HAYIR|%31|EVET|%51|4|HAYIR|%
22|EVET|%25|3|HAYIR|%22|EVET|%33
356|2026-07-29 19:57:10|2|3/2|HAYIR|%41|%18|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%33|T•B|EVET|%51|%63|BLOK_TERS_TEKRAR|FRAGMENTARY
_2|TEPE>DONGU_TERS>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%34|2|HAYIR|%21|EVET|%33|4|HAYIR|%21|EVET|%28|3|HAYIR|%24|EVET|%47|1|E
VET|%26|EVET|%34|3|HAYIR|%26|EVET|%44|3|HAYIR|%30|EVET|%46|4|HAYIR|%27|EVET|%36|3|HAYIR|%19|EVET|%28|4|HAYIR|%27|EVET|%31|3|HAYIR|%26|EVET|%3
3|1|EVET|%31|EVET|%40|3|HAYIR|%21|EVET|%26|2|HAYIR|%21|EVET|%28
357|2026-07-29 19:57:11|1|1/4|HAYIR|%41|%18|HAYIR|%23|%44|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%23|%51|T•B|EVET|%51|%63|BLOK_TERS_TEKRAR|FRAGMENTARY
_2|BLOK_TERS>VADI>BLOK_TERS||HAYIR|%60|1|HAYIR|%21|EVET|%51|3|EVET|%21|EVET|%27|1|HAYIR|%24|EVET|%49|4|HAYIR|%27|EVET|%34|1|HAYIR|%25|EVET|%4
1|1|HAYIR|%29|EVET|%67|2|HAYIR|%27|EVET|%30|4|HAYIR|%18|EVET|%30|2|HAYIR|%27|EVET|%26|1|HAYIR|%25|EVET|%35|1|HAYIR|%32|EVET|%99|3|EVET|%21|EV
ET|%26|1|HAYIR|%21|EVET|%33
358|2026-07-29 19:57:12|3|2/3|HAYIR|%41|%18|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%23|%44|C•B|EVET|%51|%53|TEPE_YON|FRAGMENTARY_2|VADI>
TEPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%44|2|HAYIR|%21|EVET|%44|3|HAYIR|%22|EVET|%28|2|HAYIR|%24|EVET|%53|4|EVET|%26|EVET|%38|2|
HAYIR|%25|EVET|%45|2|HAYIR|%29|EVET|%69|2|HAYIR|%26|EVET|%34|2|HAYIR|%18|EVET|%29|2|HAYIR|%26|EVET|%30|2|HAYIR|%25|EVET|%40|2|HAYIR|%32|EVET|
%52|3|HAYIR|%22|EVET|%27|4|EVET|%21|EVET|%30
359|2026-07-29 19:57:15|4|3/2|HAYIR|%41|%18|HAYIR|%23|%62|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%39|C•B|HAYIR|%51|%51|TEPE_YON|FRAGMENTARY_2|TEPE
>DONGU>TEPE||HAYIR|%79|3|HAYIR|%21|EVET|%39|2|HAYIR|%22|EVET|%31|3|HAYIR|%23|EVET|%65|3|HAYIR|%27|EVET|%35|3|HAYIR|%25|EVET|%33|3|HAYIR|%28|E
VET|%45|3|HAYIR|%26|EVET|%32|2|HAYIR|%18|EVET|%31|3|HAYIR|%26|EVET|%30|3|HAYIR|%25|EVET|%37|2|HAYIR|%31|EVET|%64|3|HAYIR|%22|EVET|%27|3|HAYIR
|%22|EVET|%34
360|2026-07-29 19:57:16|1|4/3|HAYIR|%41|%18|EVET|%23|%28|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%23|%32|C•B|EVET|%51|%50|VADI_YON|FRAGMENTARY_2|DONGU_
TERS>BLOK_TERS>VADI|PATTERN_BREAK:0,59|EVET|%32|4|HAYIR|%20|EVET|%32|4|HAYIR|%22|EVET|%33|4|HAYIR|%23|EVET|%81|2|HAYIR|%27|EVET|%46|4|HAYIR|%
24|EVET|%31|1|HAYIR|%28|EVET|%40|4|HAYIR|%25|EVET|%29|2|HAYIR|%18|EVET|%28|3|EVET|%25|EVET|%28|4|HAYIR|%24|EVET|%33|1|HAYIR|%31|EVET|%49|3|EV
ET|%22|EVET|%26|1|HAYIR|%22|EVET|%28
361|2026-07-29 19:57:17|3|4/2|HAYIR|%41|%17|EVET|%23|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%49|C•B|EVET|%51|%53|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%20|EVET|%49|2|EVET|%21|EVET|%28|4|HAYIR|%23|EVET|%95|2|EVET|%26|EVET|%44|4|HAYIR|%2
4|EVET|%35|4|HAYIR|%28|EVET|%52|2|EVET|%25|EVET|%33|2|EVET|%17|EVET|%28|2|EVET|%26|EVET|%29|4|HAYIR|%24|EVET|%38|2|EVET|%30|EVET|%64|3|HAYIR|
%23|EVET|%27|4|HAYIR|%21|EVET|%35
362|2026-07-29 19:57:31|2|4/3|HAYIR|%41|%17|EVET|%23|%25|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%23|%30|C•B|EVET|%52|%60|VADI_YON|FRAGMENTARY_2|TEPE>V
ADI>VADI|PATTERN_BREAK:0,59|EVET|%34|2|HAYIR|%20|EVET|%30|3|EVET|%22|EVET|%28|2|HAYIR|%22|EVET|%38|2|HAYIR|%27|EVET|%49|1|HAYIR|%24|EVET|%41|
3|EVET|%27|EVET|%32|4|HAYIR|%26|EVET|%35|3|EVET|%18|EVET|%29|4|HAYIR|%27|EVET|%30|2|HAYIR|%24|EVET|%27|3|EVET|%31|EVET|%91|3|EVET|%22|EVET|%2
6|4|HAYIR|%21|EVET|%34
363|2026-07-29 19:57:32|3|2/1|HAYIR|%41|%17|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%23|%44|C•B|EVET|%52|%51|VADI_YON|FRAGMENTARY_2|TEPE>
TEPE>VADI|PATTERN_BREAK:0,59|EVET|%52|2|HAYIR|%20|EVET|%44|2|HAYIR|%23|EVET|%29|2|HAYIR|%22|EVET|%31|2|HAYIR|%27|EVET|%44|2|HAYIR|%23|EVET|%3
2|2|HAYIR|%28|EVET|%45|2|HAYIR|%26|EVET|%34|2|HAYIR|%20|EVET|%32|2|HAYIR|%27|EVET|%30|2|HAYIR|%23|EVET|%35|2|HAYIR|%32|EVET|%82|4|EVET|%23|EV
ET|%25|2|HAYIR|%21|EVET|%33
364|2026-07-29 19:57:33|4|4/1|HAYIR|%41|%17|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%37|C•K|HAYIR|%52|%60|DONGU_TERS_YON|FRAGMENTARY_
2|BLOK_TERS>BLOK_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%19|EVET|%37|3|EVET|%23|EVET|%30|4|HAYIR|%22|EVET|%36|2|HAYIR|%27|EVET|%
45|4|HAYIR|%23|EVET|%35|4|HAYIR|%28|EVET|%44|3|EVET|%25|EVET|%31|3|EVET|%19|EVET|%28|3|EVET|%27|EVET|%29|4|HAYIR|%23|EVET|%27|4|HAYIR|%32|EVE
T|%90|4|HAYIR|%24|EVET|%25|3|EVET|%20|EVET|%31
365|2026-07-29 19:57:36|3|2/1|HAYIR|%41|%17|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%44|C•B|EVET|%52|%51|DONGU_TERS_YON|FRAGMENTARY_2
|VADI>BLOK_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%35|3|HAYIR|%19|EVET|%44|2|HAYIR|%24|EVET|%29|3|HAYIR|%21|EVET|%59|3|HAYIR|%26|EVET|%43|3|
HAYIR|%23|EVET|%45|3|HAYIR|%28|EVET|%60|2|HAYIR|%26|EVET|%33|3|HAYIR|%20|EVET|%27|2|HAYIR|%28|EVET|%30|3|HAYIR|%23|EVET|%34|3|HAYIR|%31|EVET|
%77|4|EVET|%24|EVET|%25|2|HAYIR|%21|EVET|%32
366|2026-07-29 19:57:37|4|4/1|HAYIR|%41|%17|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%23|%38|C•K|EVET|%52|%61|VADI_YON|FRAGMENTARY_2|TEPE>T
EPE>VADI|PATTERN_BREAK:0,59|EVET|%41|2|EVET|%19|EVET|%38|3|HAYIR|%24|EVET|%29|1|HAYIR|%21|EVET|%38|2|EVET|%26|EVET|%38|2|EVET|%22|EVET|%44|2|
EVET|%27|EVET|%48|3|HAYIR|%26|EVET|%33|4|HAYIR|%20|EVET|%32|3|HAYIR|%27|EVET|%31|2|EVET|%22|EVET|%30|2|EVET|%31|EVET|%93|4|HAYIR|%25|EVET|%26
|3|HAYIR|%21|EVET|%36
367|2026-07-29 19:57:39|2|1/4|HAYIR|%41|%17|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%23|%38|T•B|EVET|%52|%61|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%43|1|HAYIR|%20|EVET|%38|2|HAYIR|%23|EVET|%28|1|HAYIR|%21|EVET|%43|1|HAYIR|%27|EVET|%31|3|EVET|
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 368 ve sonrası)

```
↳ %23|EVET|%45|1|HAYIR|%28|EVET|%34|4|HAYIR|%26|EVET|%34|3|EVET|%20|EVET|%27|4|HAYIR|%27|EVET|%30|3|EVET|%23|EVET|%29|1|HAYIR|%32|EVET|%80|4|HA
↳ YIR|%25|EVET|%25|1|HAYIR|%21|EVET|%31
369 368|2026-07-29 19:57:45|3|4/2|HAYIR|%41|%17|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%23|%36|C•B|HAYIR|%52|%52|ZIGZAK_KOM_SALINIMM|FRAGMENT
↳ ARY_2|BLOK_TERS>VADI>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%34|1|EVET|%20|EVET|%36|3|HAYIR|%23|EVET|%35|1|EVET|%21|EVET|%72|2|HAYIR|%27|EVET|%36
↳ |1|EVET|%24|EVET|%40|1|EVET|%28|EVET|%51|2|HAYIR|%25|EVET|%32|4|HAYIR|%21|EVET|%31|2|HAYIR|%27|EVET|%29|1|EVET|%24|EVET|%30|1|EVET|%31|EVET|%
↳ 89|4|HAYIR|%24|EVET|%25|4|HAYIR|%21|EVET|%30
370 369|2026-07-29 19:57:46|1|1/3|HAYIR|%41|%17|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%23|%40|C•B|EVET|%52|%60|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%20|EVET|%40|2|HAYIR|%23|EVET|%28|2|HAYIR|%22|EVET|%42|3|EVET|%26|EVET|%34|1|H
↳ AYIR|%25|EVET|%41|1|HAYIR|%29|EVET|%44|3|EVET|%25|EVET|%31|3|EVET|%20|EVET|%29|3|EVET|%26|EVET|%29|2|HAYIR|%25|EVET|%28|2|HAYIR|%32|EVET|%67|
↳ 3|EVET|%24|EVET|%27|2|HAYIR|%20|EVET|%36
371 370|2026-07-29 19:57:47|3|4/2|EVET|%41|%17|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%23|%36|T•B|EVET|%52|%55|DONGU_TERS_YON|FRAGMENTARY_2|T
↳ EPE>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%46|4|EVET|%20|EVET|%36|3|HAYIR|%22|EVET|%30|4|EVET|%21|EVET|%41|2|HAYIR|%27|EVET|%32|4|EVET|%25|
↳ EVET|%31|4|EVET|%28|EVET|%40|2|HAYIR|%26|EVET|%31|2|HAYIR|%21|EVET|%28|2|HAYIR|%27|EVET|%28|4|EVET|%25|EVET|%31|2|HAYIR|%32|EVET|%51|3|HAYIR|
↳ %25|EVET|%27|4|EVET|%20|EVET|%33
372 371|2026-07-29 19:57:49|4|3/2|EVET|%41|%18|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%23|%39|T•B|EVET|%52|%57|DONGU_TERS_YON|FRAGMENTARY_2|D
↳ ONGU_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%65|3|EVET|%21|EVET|%39|2|HAYIR|%22|EVET|%27|3|EVET|%22|EVET|%56|2|HAYIR|%27|EVET|%34|3|EVE
↳ T|%26|EVET|%46|3|EVET|%29|EVET|%56|3|EVET|%26|EVET|%32|3|EVET|%21|EVET|%30|3|EVET|%27|EVET|%30|3|EVET|%26|EVET|%38|2|HAYIR|%31|EVET|%64|3|EVE
↳ T|%25|EVET|%27|3|EVET|%21|EVET|%33
373 372|2026-07-29 19:57:51|3|4/3|EVET|%41|%18|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%23|%34|C•B|EVET|%52|%58|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%22|EVET|%34|3|HAYIR|%22|EVET|%27|3|HAYIR|%23|EVET|%38|3|HAYIR|%26|EVET|%37|4
↳ |EVET|%26|EVET|%31|4|EVET|%30|EVET|%30|4|EVET|%26|EVET|%32|3|HAYIR|%22|EVET|%30|2|HAYIR|%28|EVET|%28|3|HAYIR|%26|EVET|%27|3|HAYIR|%31|EVET|%6
↳ 7|3|HAYIR|%25|EVET|%27|2|HAYIR|%22|EVET|%30
374 373|2026-07-29 19:57:52|4|2/3|HAYIR|%41|%18|EVET|%23|%60|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%52|C•K|HAYIR|%52|%62|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>DONGU_TERS>DONGU_TERS||HAYIR|%56|2|HAYIR|%22|EVET|%52|2|HAYIR|%22|EVET|%27|2|HAYIR|%23|EVET|%48|2|HAYIR|%26|EVET|%42|2|HAYIR|%27|EVET|%
↳ 43|2|HAYIR|%31|EVET|%76|3|EVET|%27|EVET|%34|4|HAYIR|%22|EVET|%32|3|EVET|%27|EVET|%32|2|HAYIR|%26|EVET|%41|2|HAYIR|%31|EVET|%95|3|EVET|%25|EVE
↳ T|%27|3|EVET|%22|EVET|%38
375 374|2026-07-29 19:57:53|3|4/3|EVET|%42|%18|HAYIR|%23|%49|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%23|%34|C•B|EVET|%52|%56|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>VADI>DONGU_TERS||HAYIR|%60|3|HAYIR|%21|EVET|%34|3|HAYIR|%21|EVET|%29|1|HAYIR|%23|EVET|%38|3|HAYIR|%26|EVET|%38|3|HAYIR|%27|EVET|%32|3|HA
↳ YIR|%30|EVET|%37|4|EVET|%28|EVET|%33|4|EVET|%21|EVET|%31|4|EVET|%28|EVET|%27|3|HAYIR|%26|EVET|%28|3|HAYIR|%30|EVET|%52|3|HAYIR|%26|EVET|%27|2
↳ |HAYIR|%23|EVET|%28
376 375|2026-07-29 19:58:03|4|3/2|EVET|%42|%18|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%23|%48|C•K|HAYIR|%52|%59|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>DONGU_TERS>DONGU_TERS||HAYIR|%47|2|HAYIR|%21|EVET|%48|3|EVET|%21|EVET|%28|3|EVET|%22|EVET|%42|2|HAYIR|%26|EVET|%39|2|HAYIR|%27|EVET|%42
↳ |2|HAYIR|%30|EVET|%73|3|EVET|%29|EVET|%36|4|HAYIR|%22|EVET|%31|3|EVET|%29|EVET|%33|2|HAYIR|%26|EVET|%38|2|HAYIR|%30|EVET|%95|3|EVET|%26|EVET|
↳ %27|3|EVET|%22|EVET|%41
377 376|2026-07-29 19:58:04|3|4/2|HAYIR|%42|%18|EVET|%23|%55|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%32|C•B|EVET|%52|%59|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>ZIGZAK_KOM>DONGU_TERS||HAYIR|%77|4|HAYIR|%21|EVET|%32|4|HAYIR|%22|EVET|%32|4|HAYIR|%23|EVET|%50|3|HAYIR|%25|EVET|%38|3|HAYIR|%26|EVET|%3
↳ 1|3|HAYIR|%30|EVET|%33|4|HAYIR|%30|EVET|%35|3|HAYIR|%22|EVET|%33|4|HAYIR|%30|EVET|%29|4|HAYIR|%25|EVET|%33|4|HAYIR|%30|EVET|%56|4|HAYIR|%26|E
↳ VET|%26|4|HAYIR|%23|EVET|%30
378 377|2026-07-29 19:58:06|2|4/3|HAYIR|%42|%18|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%23|%29|C•B|HAYIR|%52|%56|ZIGZAK_KOM_SALINIMM|FRAGMEN
↳ TARY_2|TEPE>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%62|3|HAYIR|%21|EVET|%29|3|HAYIR|%22|EVET|%31|2|HAYIR|%23|EVET|%50|4|HAYIR|%25|EVET
↳ |%34|1|EVET|%26|EVET|%39|2|HAYIR|%29|EVET|%31|4|HAYIR|%29|EVET|%33|4|HAYIR|%22|EVET|%32|4|HAYIR|%29|EVET|%29|3|HAYIR|%25|EVET|%27|3|HAYIR|%29
↳ |EVET|%58|4|HAYIR|%26|EVET|%26|4|HAYIR|%23|EVET|%31
379 378|2026-07-29 19:58:07|1|3/1|HAYIR|%42|%18|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%23|%51|C•K|EVET|%52|%56|ZIGZAK_KOM_SALINIMM|FRAGMENT
↳ ARY_2|VADI>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%32|1|HAYIR|%21|EVET|%51|4|HAYIR|%22|EVET|%33|1|HAYIR|%23|EVET|%46|4|HAYIR|%25|EVET|
↳ %33|1|HAYIR|%27|EVET|%40|1|HAYIR|%29|EVET|%68|3|HAYIR|%29|EVET|%33|4|HAYIR|%22|EVET|%36|3|HAYIR|%29|EVET|%31|1|HAYIR|%25|EVET|%30|1|HAYIR|%29
↳ |EVET|%93|4|HAYIR|%26|EVET|%26|1|HAYIR|%23|EVET|%30
380 379|2026-07-29 19:58:11|2|4/3|HAYIR|%42|%18|EVET|%23|%31|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%23|%43|C•B|EVET|%53|%56|ZIGZAK_KOM_SALINIMM|FRAGMENTA
↳ RY_2|DONGU>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%20|EVET|%43|3|EVET|%21|EVET|%34|1|HAYIR|%22|EVET|%47|1|HAYIR|%25|EVET|%
↳ 31|3|EVET|%27|EVET|%30|4|HAYIR|%29|EVET|%37|4|HAYIR|%29|EVET|%31|3|EVET|%21|EVET|%31|4|HAYIR|%29|EVET|%29|3|EVET|%25|EVET|%28|4|HAYIR|%29|EVE
↳ T|%33|4|HAYIR|%26|EVET|%26|4|HAYIR|%22|EVET|%40
381 380|2026-07-29 19:58:12|3|4/1|HAYIR|%42|%18|EVET|%24|%24|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%23|%44|C•K|EVET|%53|%67|ZIGZAK_KOM_SALINIMM|FRAGMENTAR
↳ Y_2|VADI>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%25|1|EVET|%20|EVET|%44|4|HAYIR|%22|EVET|%38|2|HAYIR|%22|EVET|%47|2|HAYIR|%24|EVET|%27
↳ |1|EVET|%27|EVET|%40|1|EVET|%28|EVET|%63|4|HAYIR|%28|EVET|%33|3|HAYIR|%22|EVET|%34|2|HAYIR|%28|EVET|%28|2|HAYIR|%25|EVET|%28|1|EVET|%28|EVET|
↳ %84|4|HAYIR|%25|EVET|%26|1|EVET|%22|EVET|%31
382 381|2026-07-29 19:58:12|1|2/3|EVET|%42|%18|HAYIR|%24|%55|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%23|%51|C•K|EVET|%53|%54|ZIGZAK_KOM_SALINIMM|FRAGMENTAR
↳ Y_2|TEPE>DONGU_TERS>ZIGZAK_KOM||HAYIR|%60|2|EVET|%21|EVET|%51|3|HAYIR|%22|EVET|%32|2|EVET|%22|EVET|%59|4|HAYIR|%24|EVET|%32|2|EVET|%28|EVET|%
↳ 43|2|EVET|%29|EVET|%63|3|HAYIR|%28|EVET|%32|3|HAYIR|%22|EVET|%29|3|HAYIR|%28|EVET|%30|2|EVET|%25|EVET|%37|2|EVET|%29|EVET|%67|4|HAYIR|%25|EVE
↳ T|%25|2|EVET|%23|EVET|%34
383 382|2026-07-29 19:58:13|2|4/3|EVET|%42|%18|HAYIR|%24|%43|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%24|%58|C•B|EVET|%53|%63|VADI_YON|FRAGMENTARY_2|DONGU>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%73|4|EVET|%22|EVET|%58|4|EVET|%22|EVET|%28|4|EVET|%23|EVET|%83|2|HAYIR|%24|EVET|%42|4|EVET|%29|EVET|%
↳ 43|4|EVET|%30|EVET|%61|3|HAYIR|%28|EVET|%31|4|EVET|%22|EVET|%32|4|EVET|%28|EVET|%28|4|EVET|%26|EVET|%43|4|EVET|%30|EVET|%81|3|HAYIR|%25|EVET|
↳ %27|4|EVET|%24|EVET|%36
384 383|2026-07-29 19:58:14|4|3/4|HAYIR|%42|%18|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%23|%37|T•B|HAYIR|%53|%62|VADI_YON|FRAGMENTARY_2|DONG
↳ U_TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%23|EVET|%37|3|HAYIR|%23|EVET|%29|3|HAYIR|%24|EVET|%50|2|EVET|%24|EVET|%28|4|HAYIR
↳ |%30|EVET|%44|4|HAYIR|%31|EVET|%45|3|HAYIR|%28|EVET|%37|3|HAYIR|%23|EVET|%35|3|HAYIR|%28|EVET|%34|3|HAYIR|%27|EVET|%33|1|HAYIR|%31|EVET|%67|3
↳ |HAYIR|%25|EVET|%27|1|HAYIR|%25|EVET|%31
385 384|2026-07-29 19:58:18|2|4/3|HAYIR|%42|%18|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%23|%33|T•K|EVET|%53|%58|DONGU_YON|FRAGMENTARY_2|DONG
↳ U_TERS>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%22|EVET|%33|4|HAYIR|%22|EVET|%31|4|HAYIR|%23|EVET|%57|2|EVET|%24|EVET|%32|4|HAYI
↳ R|%29|EVET|%43|4|HAYIR|%30|EVET|%43|4|HAYIR|%27|EVET|%32|3|HAYIR|%22|EVET|%33|4|HAYIR|%28|EVET|%29|4|HAYIR|%26|EVET|%34|4|HAYIR|%30|EVET|%59|
↳ 3|HAYIR|%24|EVET|%27|1|HAYIR|%24|EVET|%29
386 385|2026-07-29 19:58:19|2|3/4|HAYIR|%42|%18|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%24|%34|T•B|EVET|%53|%60|DONGU_YON|FRAGMENTARY_2|DONGU
↳ _TERS>ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%45|1|EVET|%22|EVET|%34|2|HAYIR|%22|EVET|%31|3|HAYIR|%23|EVET|%31|1|EVET|%25|EVET|%40|3|HAYIR|
↳ %29|EVET|%46|3|HAYIR|%30|EVET|%44|4|HAYIR|%27|EVET|%30|3|HAYIR|%22|EVET|%34|4|HAYIR|%28|EVET|%29|3|HAYIR|%26|EVET|%34|3|HAYIR|%30|EVET|%68|3|
↳ HAYIR|%24|EVET|%27|1|EVET|%24|EVET|%31
387 386|2026-07-29 19:58:21|1|3/1|EVET|%42|%18|HAYIR|%23|%25|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%41|C•B|EVET|%53|%52|DONGU_YON|FRAGMENTARY_2|DONGU
↳ _TERS>ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%32|1|HAYIR|%23|EVET|%41|4|HAYIR|%22|EVET|%39|1|HAYIR|%23|EVET|%31|4|HAYIR|%26|EVET|%44|3|EVET
↳ |%29|EVET|%33|1|HAYIR|%30|EVET|%40|2|HAYIR|%27|EVET|%31|4|HAYIR|%22|EVET|%29|3|EVET|%28|EVET|%30|3|EVET|%26|EVET|%29|3|EVET|%30|EVET|%48|3|EV
↳ ET|%24|EVET|%27|2|HAYIR|%25|EVET|%29
388 387|2026-07-29 19:58:22|3|2/4|EVET|%42|%19|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%23|%37|C•K|EVET|%53|%61|DONGU_YON|FRAGMENTARY_2|VADI>
↳ ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%51|4|HAYIR|%23|EVET|%37|2|EVET|%22|EVET|%29|4|HAYIR|%23|EVET|%44|4|HAYIR|%25|EVET|%41|2|EVET|%29|EV
↳ ET|%44|2|EVET|%29|EVET|%43|4|HAYIR|%26|EVET|%32|2|EVET|%22|EVET|%31|2|EVET|%28|EVET|%28|2|EVET|%26|EVET|%34|2|EVET|%30|EVET|%50|3|HAYIR|%25|E
↳ VET|%27|4|HAYIR|%25|EVET|%38
389 388|2026-07-29 19:58:23|2|1/3|HAYIR|%42|%19|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%24|%31|C•K|EVET|%53|%59|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%43|2|EVET|%22|EVET|%31|4|HAYIR|%22|EVET|%31|1|HAYIR|%22|EVET|%36|4|HAYIR|%25|EVET|%38|1|HAYIR|%30|E
↳ VET|%40|1|HAYIR|%30|EVET|%40|4|HAYIR|%26|EVET|%31|3|HAYIR|%22|EVET|%29|4|HAYIR|%29|EVET|%28|1|HAYIR|%27|EVET|%27|3|HAYIR|%31|EVET|%94|3|HAYIR
↳ |%24|EVET|%27|4|HAYIR|%24|EVET|%29
390 389|2026-07-29 19:58:24|2|1/4|HAYIR|%42|%19|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%24|%50|T•B|HAYIR|%53|%58|DONGU_YON|FRAGMENTARY_2|DON
↳ GU>ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%53|1|HAYIR|%23|EVET|%50|2|EVET|%22|EVET|%38|1|HAYIR|%22|EVET|%44|1|HAYIR|%25|EVET|%38|1|HAYIR|%3
↳ 0|EVET|%40|1|HAYIR|%30|EVET|%70|1|HAYIR|%26|EVET|%30|3|HAYIR|%22|EVET|%30|4|HAYIR|%29|EVET|%28|1|HAYIR|%27|EVET|%41|4|HAYIR|%31|EVET|%64|2|EV
↳ ET|%24|EVET|%25|1|HAYIR|%24|EVET|%36
391 390|2026-07-29 19:58:25|2|3/1|EVET|%42|%19|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%24|%41|T•B|EVET|%53|%62|VADI_YON|FRAGMENTARY_2|DONGU>
↳ VADI>VADI|PATTERN_BREAK:0,59|EVET|%36|1|HAYIR|%23|EVET|%41|4|HAYIR|%23|EVET|%35|1|HAYIR|%22|EVET|%39|1|HAYIR|%25|EVET|%47|3|EVET|%29|EVET|%45
↳ |3|EVET|%29|EVET|%41|3|EVET|%26|EVET|%30|3|EVET|%22|EVET|%35|4|HAYIR|%28|EVET|%27|3|EVET|%27|EVET|%31|1|HAYIR|%30|EVET|%40|2|HAYIR|%25|EVET|%
↳ 26|1|HAYIR|%24|EVET|%33
392 391|2026-07-29 19:58:31|3|1/2|EVET|%42|%19|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%24|%38|C•K|EVET|%54|%59|VADI_YON|FRAGMENTARY_2|DONGU>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%51|1|EVET|%23|EVET|%38|2|HAYIR|%23|EVET|%29|4|HAYIR|%22|EVET|%38|4|HAYIR|%25|EVET|%29|1|EVET|%30|EVET|%39|1
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 392 ve sonrası)


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↳ |EVET|%30|EVET|%47|2|HAYIR|%26|EVET|%32|2|HAYIR|%23|EVET|%37|2|HAYIR|%28|EVET|%29|1|EVET|%27|EVET|%30|4|HAYIR|%30|EVET|%50|2|HAYIR|%25|EVET|%
↳ 25|1|EVET|%24|EVET|%35
393 392|2026-07-29 19:58:34|1|2/3|HAYIR|%42|%19|HAYIR|%23|%56|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%24|%51|C•K|EVET|%54|%60|VADI_YON|FRAGMENTARY_2|DONGU
↳ >DONGU>VADI||HAYIR|%86|2|HAYIR|%23|EVET|%51|4|HAYIR|%22|EVET|%34|2|HAYIR|%22|EVET|%50|2|HAYIR|%24|EVET|%36|2|HAYIR|%31|EVET|%46|2|HAYIR|%31|E
↳ VET|%63|3|HAYIR|%26|EVET|%32|2|HAYIR|%22|EVET|%35|3|HAYIR|%28|EVET|%31|2|HAYIR|%28|EVET|%43|2|HAYIR|%30|EVET|%75|2|HAYIR|%24|EVET|%25|2|HAYIR
↳ |%24|EVET|%38
394 393|2026-07-29 19:58:35|1|1/3|HAYIR|%43|%19|EVET|%23|%32|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%24|%43|T•B|EVET|%54|%54|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE|PATTERN_BREAK:0,59|EVET|%38|3|EVET|%23|EVET|%43|2|HAYIR|%22|EVET|%30|4|HAYIR|%21|EVET|%40|3|EVET|%24|EVET|%50|1|HAYIR|%30|EVET|%41|1
↳ |HAYIR|%30|EVET|%51|3|EVET|%26|EVET|%40|1|HAYIR|%22|EVET|%28|3|EVET|%28|EVET|%30|3|EVET|%28|EVET|%31|1|HAYIR|%30|EVET|%88|2|HAYIR|%24|EVET|%2
↳ 5|3|EVET|%24|EVET|%40
395 394|2026-07-29 19:58:40|3|3/2|HAYIR|%42|%19|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%24|%29|C•B|EVET|%54|%57|VADI_YON|FRAGMENTARY_2|AZALI
↳ S>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%62|3|HAYIR|%24|EVET|%29|4|EVET|%22|EVET|%27|3|HAYIR|%21|EVET|%29|2|HAYIR|%25|EVET|%35|3|HAYIR|%30|EVET|
↳ %46|3|HAYIR|%30|EVET|%43|2|HAYIR|%27|EVET|%31|3|HAYIR|%22|EVET|%30|2|HAYIR|%28|EVET|%29|3|HAYIR|%28|EVET|%30|3|HAYIR|%29|EVET|%45|2|HAYIR|%24
↳ |EVET|%25|4|EVET|%25|EVET|%35
396 395|2026-07-29 19:58:41|4|3/2|EVET|%43|%19|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%24|%44|C•B|EVET|%54|%58|VADI_YON|FRAGMENTARY_2|VADI>DO
↳ NGU>VADI|PATTERN_BREAK:0,59|EVET|%53|3|EVET|%24|EVET|%44|2|HAYIR|%23|EVET|%29|3|EVET|%21|EVET|%57|2|HAYIR|%25|EVET|%32|2|HAYIR|%30|EVET|%37|3
↳ |EVET|%30|EVET|%46|3|EVET|%26|EVET|%35|2|HAYIR|%22|EVET|%36|3|EVET|%28|EVET|%33|3|EVET|%28|EVET|%35|2|HAYIR|%29|EVET|%55|3|EVET|%24|EVET|%27|
↳ 3|EVET|%25|EVET|%44
397 396|2026-07-29 19:58:57|3|4/2|HAYIR|%42|%19|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%35|C•K|HAYIR|%54|%54|TEPE_YON|FRAGMENTARY_2|VADI
↳ >DONGU>TEPE||HAYIR|%58|4|HAYIR|%24|EVET|%35|4|HAYIR|%23|EVET|%29|4|HAYIR|%22|EVET|%39|3|EVET|%24|EVET|%37|2|HAYIR|%30|EVET|%45|4|HAYIR|%30|EV
↳ ET|%34|4|HAYIR|%27|EVET|%31|2|HAYIR|%22|EVET|%35|2|HAYIR|%29|EVET|%28|4|HAYIR|%29|EVET|%30|4|HAYIR|%29|EVET|%53|3|EVET|%24|EVET|%27|2|HAYIR|%
↳ 26|EVET|%30
398 397|2026-07-29 19:58:58|3|1/2|EVET|%43|%19|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%24|%44|C•K|EVET|%54|%53|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE|PATTERN_BREAK:0,59|EVET|%39|1|EVET|%24|EVET|%44|3|HAYIR|%22|EVET|%36|1|EVET|%21|EVET|%57|2|HAYIR|%25|EVET|%47|1|EVET|%29|EVET|%40|1|
↳ EVET|%30|EVET|%63|2|HAYIR|%27|EVET|%39|3|HAYIR|%21|EVET|%33|2|HAYIR|%28|EVET|%27|1|EVET|%28|EVET|%37|3|HAYIR|%28|EVET|%71|3|HAYIR|%25|EVET|%2
↳ 7|2|HAYIR|%26|EVET|%32
399 398|2026-07-29 19:58:59|1|4/3|HAYIR|%42|%19|HAYIR|%23|%58|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%24|%37|T•B|HAYIR|%54|%55|TEPE_YON|FRAGMENTARY_2|DONG
↳ U_TERS>VADI>TEPE||HAYIR|%77|4|HAYIR|%25|EVET|%37|3|HAYIR|%22|EVET|%28|4|HAYIR|%22|EVET|%67|2|EVET|%25|EVET|%41|4|HAYIR|%30|EVET|%41|4|HAYIR|%
↳ 31|EVET|%55|3|HAYIR|%26|EVET|%33|3|HAYIR|%21|EVET|%33|3|HAYIR|%28|EVET|%32|4|HAYIR|%29|EVET|%37|2|EVET|%28|EVET|%97|3|HAYIR|%25|EVET|%27|2|EV
↳ ET|%26|EVET|%35
400 399|2026-07-29 19:59:01|2|4/3|HAYIR|%42|%19|HAYIR|%23|%46|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%24|%54|T•B|EVET|%54|%55|TEPE_YON|FRAGMENTARY_2|VADI>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%69|4|HAYIR|%25|EVET|%54|3|HAYIR|%22|EVET|%29|4|HAYIR|%22|EVET|%79|2|HAYIR|%25|EVET|%39|4|HAYIR|%30|EVET|%4
↳ 1|4|HAYIR|%31|EVET|%56|4|HAYIR|%26|EVET|%30|3|HAYIR|%21|EVET|%33|4|HAYIR|%28|EVET|%26|4|HAYIR|%29|EVET|%39|4|HAYIR|%29|EVET|%85|3|HAYIR|%25|E
↳ VET|%27|4|HAYIR|%26|EVET|%39
401 400|2026-07-29 19:59:02|1|4/3|EVET|%43|%19|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%24|%28|C•B|EVET|%54|%59|TEPE_YON|FRAGMENTARY_2|TEPE>VA
↳ DI>TEPE|PATTERN_BREAK:0,59|EVET|%42|4|EVET|%24|EVET|%28|4|EVET|%22|EVET|%27|2|HAYIR|%22|EVET|%33|4|EVET|%25|EVET|%53|4|EVET|%29|EVET|%41|4|EV
↳ ET|%30|EVET|%50|2|HAYIR|%26|EVET|%32|2|HAYIR|%21|EVET|%28|3|HAYIR|%28|EVET|%31|4|EVET|%29|EVET|%32|4|EVET|%29|EVET|%95|3|HAYIR|%24|EVET|%27|3
↳ |HAYIR|%26|EVET|%31
402 401|2026-07-29 19:59:04|4|2/1|HAYIR|%43|%19|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%31|C•K|EVET|%54|%61|TEPE_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>TEPE|PATTERN_BREAK:0,59|EVET|%33|2|HAYIR|%25|EVET|%31|3|HAYIR|%22|EVET|%28|1|EVET|%22|EVET|%37|4|HAYIR|%26|EVET|%37|1|EVET|%30|EVET|%41|1
↳ |EVET|%31|EVET|%35|3|HAYIR|%26|EVET|%37|2|HAYIR|%21|EVET|%29|3|HAYIR|%27|EVET|%35|1|EVET|%29|EVET|%27|2|HAYIR|%29|EVET|%34|3|HAYIR|%24|EVET|%
↳ 27|3|HAYIR|%26|EVET|%32
403 402|2026-07-29 19:59:06|1|1/3|EVET|%43|%20|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%24|%46|C•K|EVET|%54|%61|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%64|1|EVET|%25|EVET|%46|4|HAYIR|%22|EVET|%29|1|EVET|%22|EVET|%100|2|HAYIR|%26|EVET|%35|1|EVET|%31|EVET|%
↳ 42|1|EVET|%31|EVET|%75|2|HAYIR|%26|EVET|%31|3|HAYIR|%21|EVET|%29|3|HAYIR|%27|EVET|%30|1|EVET|%30|EVET|%42|1|EVET|%29|EVET|%94|1|EVET|%24|EVET
↳ |%25|3|HAYIR|%26|EVET|%31
404 403|2026-07-29 19:59:07|1|1/3|HAYIR|%43|%20|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%40|T•B|HAYIR|%54|%56|TEPE_YON|FRAGMENTARY_2|VADI
↳ >VADI>TEPE|PATTERN_BREAK:0,59|EVET|%53|3|HAYIR|%25|EVET|%40|1|HAYIR|%22|EVET|%34|1|HAYIR|%23|EVET|%51|3|HAYIR|%25|EVET|%55|1|HAYIR|%31|EVET|%
↳ 42|1|HAYIR|%32|EVET|%56|3|HAYIR|%25|EVET|%43|1|HAYIR|%20|EVET|%29|3|HAYIR|%27|EVET|%30|1|HAYIR|%30|EVET|%34|3|HAYIR|%30|EVET|%85|1|HAYIR|%25|
↳ EVET|%25|3|HAYIR|%25|EVET|%44
405 404|2026-07-29 19:59:10|2|3/4|EVET|%43|%20|HAYIR|%23|%50|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%44|C•B|EVET|%54|%63|VADI_YON|FRAGMENTARY_2|DONGU>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%68|3|EVET|%25|EVET|%44|4|HAYIR|%22|EVET|%29|3|EVET|%23|EVET|%54|3|EVET|%25|EVET|%42|3|EVET|%31|EVET|%45|3|E
↳ VET|%32|EVET|%62|4|HAYIR|%25|EVET|%29|3|EVET|%20|EVET|%37|4|HAYIR|%27|EVET|%26|3|EVET|%30|EVET|%42|3|EVET|%29|EVET|%50|1|HAYIR|%24|EVET|%25|4
↳ |HAYIR|%25|EVET|%36
406 405|2026-07-29 19:59:11|3|1/2|HAYIR|%43|%20|EVET|%23|%54|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%57|C•K|EVET|%55|%63|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%74|1|HAYIR|%26|EVET|%57|3|HAYIR|%22|EVET|%34|1|HAYIR|%23|EVET|%49|2|EVET|%26|EVET|%35|1|HAYIR|%
↳ 31|EVET|%42|1|HAYIR|%32|EVET|%80|4|HAYIR|%25|EVET|%31|1|HAYIR|%21|EVET|%29|2|EVET|%27|EVET|%27|1|HAYIR|%31|EVET|%44|1|HAYIR|%30|EVET|%89|1|HA
↳ YIR|%24|EVET|%25|1|HAYIR|%25|EVET|%39
407 406|2026-07-29 19:59:12|2|2/3|HAYIR|%43|%20|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%33|C•K|EVET|%55|%59|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%26|EVET|%33|3|HAYIR|%21|EVET|%29|2|HAYIR|%23|EVET|%40|1|EVET|%26|EVET|%36|3|HAYIR|%31|EVE
↳ T|%33|3|HAYIR|%32|EVET|%34|3|HAYIR|%25|EVET|%30|3|HAYIR|%21|EVET|%30|3|HAYIR|%27|EVET|%26|2|HAYIR|%30|EVET|%29|4|HAYIR|%30|EVET|%74|2|HAYIR|%
↳ 24|EVET|%25|2|HAYIR|%25|EVET|%30
408 407|2026-07-29 19:59:16|1|1/2|HAYIR|%43|%20|EVET|%23|%47|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%33|C•B|EVET|%55|%55|TEPE_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%69|1|HAYIR|%25|EVET|%33|3|HAYIR|%21|EVET|%34|4|HAYIR|%23|EVET|%39|1|HAYIR|%27|EVET|%31|1|HAYIR|%31|EVET
↳ |%32|1|HAYIR|%32|EVET|%50|2|EVET|%25|EVET|%31|2|EVET|%20|EVET|%28|3|HAYIR|%27|EVET|%29|1|HAYIR|%30|EVET|%30|1|HAYIR|%29|EVET|%93|1|HAYIR|%24|
↳ EVET|%25|3|HAYIR|%25|EVET|%28
409 408|2026-07-29 19:59:17|2|3/4|EVET|%43|%20|HAYIR|%23|%46|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%47|T•B|EVET|%55|%61|VADI_YON|FRAGMENTARY_2|TEPE>TE
↳ PE>VADI|PATTERN_BREAK:0,59|EVET|%65|3|EVET|%25|EVET|%47|4|HAYIR|%21|EVET|%28|3|EVET|%23|EVET|%38|1|HAYIR|%27|EVET|%31|3|EVET|%31|EVET|%45|3|E
↳ VET|%32|EVET|%66|3|EVET|%25|EVET|%29|3|EVET|%21|EVET|%31|3|EVET|%27|EVET|%26|3|EVET|%30|EVET|%40|3|EVET|%29|EVET|%54|3|EVET|%24|EVET|%27|4|HA
↳ YIR|%24|EVET|%34
410 409|2026-07-29 19:59:18|3|1|HAYIR|%43|%20|HAYIR|%23|%81|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%56|C•K|EVET|%55|%66|DONGU_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>DONGU||HAYIR|%88|1|HAYIR|%26|EVET|%56|2|HAYIR|%21|EVET|%37|1|HAYIR|%23|EVET|%48|1|HAYIR|%26|EVET|%30|1|HAYIR|%31|EVET|%42|1|HAYIR|%32|EVE
↳ T|%80|2|HAYIR|%26|EVET|%31|2|HAYIR|%22|EVET|%33|2|HAYIR|%27|EVET|%28|1|HAYIR|%30|EVET|%42|1|HAYIR|%30|EVET|%79|3|HAYIR|%24|EVET|%27|1|HAYIR|%
↳ 24|EVET|%36
411 410|2026-07-29 19:59:20|4|3/4|EVET|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%47|T•B|EVET|%55|%57|ZIGZAK_KOM_SALINIMM|FRAGMENTAR
↳ Y_2|DALGA_TEK_SIM_2>VADI>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%64|3|EVET|%25|EVET|%47|1|HAYIR|%21|EVET|%28|3|EVET|%23|EVET|%41|3|EVET|%26|EVET|
↳ %29|3|EVET|%31|EVET|%31|3|EVET|%32|EVET|%40|3|EVET|%25|EVET|%35|3|EVET|%22|EVET|%29|3|EVET|%27|EVET|%34|3|EVET|%30|EVET|%35|4|HAYIR|%29|EVET|
↳ %85|3|EVET|%24|EVET|%27|3|EVET|%24|EVET|%46
412 411|2026-07-29 19:59:21|3|3/4|HAYIR|%43|%20|HAYIR|%23|%57|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%33|C•B|HAYIR|%55|%63|ZIGZAK_KOM_SALINIMM|FRAGMEN
↳ TARY_2|BLOK_DUZ>TEPE>ZIGZAK_KOM||HAYIR|%78|3|HAYIR|%26|EVET|%33|3|HAYIR|%21|EVET|%28|2|HAYIR|%24|EVET|%33|3|HAYIR|%27|EVET|%39|3|HAYIR|%32|EV
↳ ET|%38|3|HAYIR|%32|EVET|%46|4|HAYIR|%26|EVET|%31|2|HAYIR|%22|EVET|%31|2|HAYIR|%28|EVET|%28|3|HAYIR|%31|EVET|%30|3|HAYIR|%29|EVET|%47|3|HAYIR|
↳ %25|EVET|%27|2|HAYIR|%25|EVET|%28
413 412|2026-07-29 19:59:55|1|4/2|HAYIR|%43|%20|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%42|C•K|EVET|%55|%57|ZIGZAK_KOM_SALINIMM|FRAGMENT
↳ ARY_2|TEPE>VADI>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%53|2|HAYIR|%26|EVET|%42|3|HAYIR|%20|EVET|%29|4|HAYIR|%24|EVET|%55|3|HAYIR|%27|EVET|%40|4|
↳ HAYIR|%31|EVET|%40|4|HAYIR|%32|EVET|%47|2|HAYIR|%26|EVET|%33|2|HAYIR|%22|EVET|%30|2|HAYIR|%27|EVET|%29|4|HAYIR|%31|EVET|%31|2|HAYIR|%29|EVET|
↳ %70|3|HAYIR|%24|EVET|%27|2|HAYIR|%24|EVET|%39
414 413|2026-07-29 19:59:57|1|1/3|HAYIR|%43|%20|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%48|T•B|EVET|%55|%53|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%43|3|EVET|%26|EVET|%48|2|HAYIR|%20|EVET|%36|4|HAYIR|%23|EVET|%33|3|EVET|%26|EVET|%53|1|HAYIR|%31|EVET|
↳ %43|1|HAYIR|%32|EVET|%52|3|EVET|%26|EVET|%37|1|HAYIR|%22|EVET|%31|2|HAYIR|%27|EVET|%28|3|EVET|%30|EVET|%35|1|HAYIR|%29|EVET|%81|3|EVET|%24|EV
↳ ET|%27|3|EVET|%24|EVET|%40
415 414|2026-07-29 19:59:58|3|4/3|HAYIR|%43|%20|EVET|%23|%37|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%43|C•B|EVET|%55|%50|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%62|4|HAYIR|%26|EVET|%43|3|EVET|%20|EVET|%28|4|HAYIR|%23|EVET|%48|3|EVET|%27|EVET|%49|3|EVET|%31|EVET|%
↳ 34|4|HAYIR|%32|EVET|%40|4|HAYIR|%26|EVET|%30|3|EVET|%22|EVET|%36|2|HAYIR|%27|EVET|%27|4|HAYIR|%31|EVET|%31|3|EVET|%29|EVET|%41|1|HAYIR|%25|EV
↳ ET|%25|4|HAYIR|%25|EVET|%38
416 415|2026-07-29 20:00:01|3|2/1|HAYIR|%43|%20|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%54|C•K|HAYIR|%55|%60|TEPE_YON|FRAGMENTARY_2|VADI
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%66|2|HAYIR|%26|EVET|%54|2|HAYIR|%21|EVET|%35|2|HAYIR|%23|EVET|%77|2|HAYIR|%28|EVET|%45|2|HAYIR|%31|EVET|%
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 416 ve sonrası)

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44|2|HAYIR|%31|EVET|%65|2|HAYIR|%26|EVET|%34|3|EVET|%22|EVET|%35|2|HAYIR|%27|EVET|%27|2|HAYIR|%31|EVET|%47|2|HAYIR|%29|EVET|%81|1|HAYIR|%25|E
VET|%25|1|HAYIR|%25|EVET|%35
416|2026-07-29 20:00:03|3|1/2|HAYIR|%43|%20|EVET|%23|%34|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%35|T•B|HAYIR|%55|%50|TEPE_YON|FRAGMENTARY_2|DONGU
_TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%26|EVET|%35|3|HAYIR|%21|EVET|%30|4|HAYIR|%23|EVET|%45|2|EVET|%27|EVET|%43|1|HAYIR|%31|EV
ET|%42|1|HAYIR|%31|EVET|%39|2|EVET|%26|EVET|%33|3|HAYIR|%23|EVET|%39|2|EVET|%27|EVET|%26|1|HAYIR|%30|EVET|%30|4|HAYIR|%29|EVET|%59|1|HAYIR|%2
4|EVET|%25|1|HAYIR|%24|EVET|%32
417|2026-07-29 20:00:07|2|1/3|HAYIR|%43|%20|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%25|T•K|HAYIR|%55|%54|VADI_YON|FRAGMENTARY_2|ARTI
S>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%26|EVET|%25|2|HAYIR|%20|EVET|%34|4|EVET|%23|EVET|%36|1|HAYIR|%28|EVET|%40|1|HAYIR|%31|EVET|
%42|1|HAYIR|%31|EVET|%38|3|HAYIR|%26|EVET|%31|3|HAYIR|%23|EVET|%36|3|HAYIR|%27|EVET|%27|1|HAYIR|%30|EVET|%28|3|HAYIR|%29|EVET|%75|1|HAYIR|%24
|EVET|%25|2|HAYIR|%24|EVET|%28
418|2026-07-29 20:00:11|4|3/1|HAYIR|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%38|T•K|HAYIR|%55|%55|VADI_YON|FRAGMENTARY_2|TEPE
>ZIGZAK_KOM>VADI|PATTERN_BREAK:0,59|EVET|%56|1|HAYIR|%25|EVET|%38|3|HAYIR|%20|EVET|%35|3|HAYIR|%23|EVET|%43|1|HAYIR|%28|EVET|%46|1|HAYIR|%31|
EVET|%34|1|HAYIR|%31|EVET|%50|3|HAYIR|%26|EVET|%37|3|HAYIR|%22|EVET|%32|3|HAYIR|%27|EVET|%35|1|HAYIR|%30|EVET|%31|1|HAYIR|%28|EVET|%75|1|HAYI
R|%24|EVET|%25|3|HAYIR|%24|EVET|%30
419|2026-07-29 20:00:15|4|1/3|HAYIR|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%24|%37|T•K|EVET|%55|%58|TEPE_YON|FRAGMENTARY_2|TEPE>
ZIGZAK_KOM>TEPE|PATTERN_BREAK:0,59|EVET|%44|3|HAYIR|%25|EVET|%37|2|EVET|%20|EVET|%36|4|HAYIR|%23|EVET|%42|1|HAYIR|%27|EVET|%35|1|HAYIR|%30|EV
ET|%29|1|HAYIR|%30|EVET|%37|3|HAYIR|%26|EVET|%32|3|HAYIR|%22|EVET|%43|3|HAYIR|%27|EVET|%34|3|HAYIR|%30|EVET|%34|2|EVET|%28|EVET|%51|2|EVET|%2
4|EVET|%25|3|HAYIR|%24|EVET|%34
420|2026-07-29 20:00:18|2|1/2|EVET|%43|%20|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%33|T•K|EVET|%55|%59|TEPE_YON|FRAGMENTARY_2|VADI>ZI
GZAK_KOM>TEPE|PATTERN_BREAK:0,59|EVET|%33|1|EVET|%25|EVET|%33|3|HAYIR|%21|EVET|%36|3|HAYIR|%23|EVET|%37|1|EVET|%27|EVET|%39|2|HAYIR|%30|EVET|
%44|1|EVET|%30|EVET|%35|3|HAYIR|%26|EVET|%30|3|HAYIR|%22|EVET|%31|3|HAYIR|%27|EVET|%27|2|HAYIR|%29|EVET|%26|1|EVET|%29|EVET|%82|3|HAYIR|%24|E
VET|%27|2|HAYIR|%24|EVET|%28
421|2026-07-29 20:00:23|1|1/2|EVET|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%35|T•B|EVET|%55|%57|TEPE_YON|FRAGMENTARY_2|BLOK_DU
Z>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%56|1|EVET|%26|EVET|%35|3|HAYIR|%21|EVET|%28|3|HAYIR|%23|EVET|%36|3|HAYIR|%28|EVET|%39|1|EVET|%30|EVET|%3
0|1|EVET|%31|EVET|%48|2|HAYIR|%26|EVET|%32|1|EVET|%22|EVET|%28|3|HAYIR|%26|EVET|%29|1|EVET|%29|EVET|%27|1|EVET|%29|EVET|%99|3|HAYIR|%24|EVET|
%27|2|HAYIR|%23|EVET|%30
422|2026-07-29 20:00:25|1|3/1|HAYIR|%43|%20|HAYIR|%23|%54|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%57|T•B|HAYIR|%55|%57|DONGU_YON|FRAGMENTARY_2|TEP
E>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%75|3|HAYIR|%26|EVET|%57|4|HAYIR|%20|EVET|%28|3|HAYIR|%23|EVET|%55|3|HAYIR|%28|EVET|%63|3|HAYIR|%30|EVET
|%46|3|HAYIR|%31|EVET|%61|3|HAYIR|%25|EVET|%40|3|HAYIR|%23|EVET|%31|3|HAYIR|%26|EVET|%29|3|HAYIR|%30|EVET|%47|3|HAYIR|%30|EVET|%88|3|HAYIR|%2
4|EVET|%27|3|HAYIR|%23|EVET|%44
423|2026-07-29 20:00:29|2|3/4|HAYIR|%43|%20|EVET|%23|%52|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%49|C•B|EVET|%55|%61|DONGU_YON|FRAGMENTARY_2|TEPE>
TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%75|3|HAYIR|%26|EVET|%49|2|HAYIR|%20|EVET|%29|3|HAYIR|%22|EVET|%58|3|HAYIR|%27|EVET|%38|3|HAYIR|%30|EVET|%
46|3|HAYIR|%31|EVET|%53|3|HAYIR|%25|EVET|%29|3|HAYIR|%22|EVET|%31|3|HAYIR|%26|EVET|%26|3|HAYIR|%30|EVET|%41|3|HAYIR|%30|EVET|%67|3|HAYIR|%24|
EVET|%27|3|HAYIR|%23|EVET|%37
424|2026-07-29 20:00:34|4|1/3|HAYIR|%43|%20|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%29|C•K|EVET|%55|%53|VADI_YON|FRAGMENTARY_2|VADI>
TEPE>VADI|PATTERN_BREAK:0,59|EVET|%48|1|HAYIR|%26|EVET|%29|3|HAYIR|%20|EVET|%28|1|HAYIR|%22|EVET|%27|1|HAYIR|%27|EVET|%38|3|HAYIR|%30|EVET|%2
8|1|HAYIR|%31|EVET|%31|3|HAYIR|%25|EVET|%36|2|HAYIR|%22|EVET|%32|3|HAYIR|%26|EVET|%33|3|HAYIR|%29|EVET|%28|1|HAYIR|%29|EVET|%65|3|HAYIR|%24|E
VET|%27|3|HAYIR|%23|EVET|%28
425|2026-07-29 20:00:38|4|2/1|HAYIR|%43|%20|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%0|T•K|EVET|%56|%0|VADI_YON|FRAGMENTARY_2|VADI>VAD
I>VADI||HAYIR|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|2|HAYIR|%0|E
VET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0
426|2026-07-29 20:01:19|1|2/3|HAYIR|%43|%20|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%24|%41|T•K|HAYIR|%55|%61|VADI_YON|FRAGMENTARY_2|ARTI
S>VADI>VADI|PATTERN_BREAK:0,59|EVET|%32|1|HAYIR|%0|EVET|%41|3|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%53|2|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%43|1
|HAYIR|%0|EVET|%54|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%70|2|HAYIR|%0|EVET|%25|1|
HAYIR|%0|EVET|%32
427|2026-07-29 20:01:23|4|3/2|HAYIR|%43|%20|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%24|%33|C•K|EVET|%55|%53|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%61|3|HAYIR|%0|EVET|%30|2|HAYIR|%0|
EVET|%31|2|HAYIR|%0|EVET|%40|3|HAYIR|%0|EVET|%35|4|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%54|2|HAYIR|%0|EV
ET|%25|3|HAYIR|%0|EVET|%28
428|2026-07-29 20:01:27|4|3/2|EVET|%43|%20|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%41|T•K|EVET|%55|%62|DONGU_TERS_YON|FRAGMENTARY_2|T
EPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%52|3|EVET|%0|EVET|%41|4|HAYIR|%0|EVET|%30|3|EVET|%0|EVET|%58|1|HAYIR|%0|EVET|%34|3|EVET|%0|EVET|
%44|3|EVET|%0|EVET|%57|1|HAYIR|%0|EVET|%29|3|EVET|%0|EVET|%40|3|EVET|%0|EVET|%31|3|EVET|%0|EVET|%39|3|EVET|%0|EVET|%75|2|HAYIR|%0|EVET|%25|2|
HAYIR|%0|EVET|%38
429|2026-07-29 20:03:24|3|1/4|EVET|%43|%20|HAYIR|%23|%25|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%31|T•B|EVET|%56|%60|TEPE_YON|FRAGMENTARY_2|BLOK_TE
RS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%33|1|EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%27|1|EVET|%0|EVET|%55|3|HAYIR|%0|EVET|%53|1|EVET|%0|EVET|%42|1|E
VET|%0|EVET|%55|4|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%27|1|EVET|%0|EVET|%31|4|HAYIR|%0|EVET|%65|2|HAYIR|%0|EVET|%25|2|HAYI
R|%0|EVET|%27
430|2026-07-29 20:03:32|1|2/4|HAYIR|%43|%20|HAYIR|%23|%56|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%51|C•B|EVET|%56|%55|TEPE_YON|FRAGMENTARY_2|DALGA
_TEK_SIM_2>DONGU>TEPE||HAYIR|%65|2|HAYIR|%40|EVET|%51|3|EVET|%0|EVET|%28|2|HAYIR|%40|EVET|%61|3|EVET|%20|EVET|%41|2|HAYIR|%40|EVET|%43|2|HAYI
R|%60|EVET|%69|2|HAYIR|%0|EVET|%31|4|HAYIR|%40|EVET|%27|2|HAYIR|%20|EVET|%28|2|HAYIR|%40|EVET|%41|2|HAYIR|%20|EVET|%57|1|HAYIR|%0|EVET|%25|2|
HAYIR|%0|EVET|%36
431|2026-07-29 20:04:01|3|4/2|EVET|%43|%20|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%41|T•B|EVET|%56|%52|DONGU_TERS_YON|FRAGMENTARY_2|B
LOK_DUZ>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%60|4|EVET|%33|EVET|%41|1|HAYIR|%16|EVET|%28|4|EVET|%33|EVET|%57|3|HAYIR|%33|EVET|%32|4|EVET
|%33|EVET|%32|4|EVET|%50|EVET|%48|4|EVET|%0|EVET|%30|4|EVET|%33|EVET|%27|2|HAYIR|%16|EVET|%27|4|EVET|%33|EVET|%34|4|EVET|%16|EVET|%58|3|HAYIR
|%0|EVET|%27|4|EVET|%0|EVET|%35
432|2026-07-29 20:04:48|4|3/4|HAYIR|%43|%20|HAYIR|%22|%50|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%56|T•K|EVET|%56|%62|DONGU_TERS_YON|FRAGMENTARY_2
|BLOK_DUZ>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%73|3|HAYIR|%42|EVET|%56|3|HAYIR|%14|EVET|%31|3|HAYIR|%42|EVET|%77|1|EVET|%28|EVET|%31|3|HA
YIR|%42|EVET|%45|3|HAYIR|%57|EVET|%70|3|HAYIR|%14|EVET|%36|3|HAYIR|%42|EVET|%33|3|HAYIR|%14|EVET|%33|3|HAYIR|%42|EVET|%46|3|HAYIR|%28|EVET|%5
3|3|HAYIR|%0|EVET|%27|3|HAYIR|%14|EVET|%48
433|2026-07-29 20:07:48|1|3/1|HAYIR|%43|%20|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%38|C•K|EVET|%56|%58|TEPE_YON|FRAGMENTARY_2|BLOK_
TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%37|EVET|%38|1|HAYIR|%12|EVET|%28|3|HAYIR|%37|EVET|%82|2|HAYIR|%37|EVET|%34|3|HAYIR|%37|EV
ET|%45|3|HAYIR|%50|EVET|%55|2|HAYIR|%12|EVET|%29|1|HAYIR|%37|EVET|%32|3|HAYIR|%12|EVET|%29|3|HAYIR|%37|EVET|%38|1|HAYIR|%25|EVET|%47|3|HAYIR|
%0|EVET|%27|1|HAYIR|%12|EVET|%28
434|2026-07-29 20:07:54|4|4/2|HAYIR|%43|%20|HAYIR|%22|%49|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%37|T•B|EVET|%56|%56|VADI_YON|FRAGMENTARY_2|VADI>
VADI>VADI||HAYIR|%64|4|HAYIR|%33|EVET|%37|3|HAYIR|%11|EVET|%29|4|HAYIR|%33|EVET|%49|4|HAYIR|%33|EVET|%43|2|HAYIR|%33|EVET|%42|2|HAYIR|%44|EVE
T|%46|3|HAYIR|%11|EVET|%34|4|HAYIR|%33|EVET|%40|3|HAYIR|%11|EVET|%32|4|HAYIR|%33|EVET|%32|2|HAYIR|%22|EVET|%51|3|HAYIR|%0|EVET|%27|4|HAYIR|%1
1|EVET|%32
435|2026-07-29 20:08:31|1|1/3|EVET|%43|%20|HAYIR|%22|%45|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|%48|C•B|HAYIR|%56|%60|VADI_YON|FRAGMENTARY_2|VADI>D
ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%65|1|EVET|%30|EVET|%48|1|EVET|%10|EVET|%26|1|EVET|%30|EVET|%100|1|EVET|%30|EVET|%32|1|EVET|%30|EVET|%
44|1|EVET|%40|EVET|%70|2|HAYIR|%10|EVET|%28|1|EVET|%30|EVET|%32|3|HAYIR|%10|EVET|%28|1|EVET|%30|EVET|%45|1|EVET|%20|EVET|%96|3|HAYIR|%0|EVET|
%27|4|HAYIR|%10|EVET|%31
436|2026-07-29 20:09:34|1|3/1|HAYIR|%43|%20|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%38|C•B|EVET|%56|%57|DONGU_YON|FRAGMENTARY_2|DALGA
_TEK_SIM_2>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%34|2|EVET|%36|EVET|%38|3|HAYIR|%18|EVET|%29|2|EVET|%36|EVET|%72|3|HAYIR|%36|EVET|%48|1|H
AYIR|%36|EVET|%32|2|EVET|%45|EVET|%35|3|HAYIR|%9|EVET|%36|1|HAYIR|%36|EVET|%27|3|HAYIR|%9|EVET|%28|2|EVET|%36|EVET|%34|3|HAYIR|%27|EVET|%84|3
|HAYIR|%0|EVET|%27|3|HAYIR|%9|EVET|%40
437|2026-07-29 20:10:58|2|3|HAYIR|%43|%20|HAYIR|%22|%77|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%55|T•B|HAYIR|%56|%59|TEPE_YON|FRAGMENTARY_2|BLOK_T
ERS>TEPE>TEPE||HAYIR|%80|3|HAYIR|%41|EVET|%55|1|HAYIR|%16|EVET|%28|3|HAYIR|%41|EVET|%67|2|EVET|%33|EVET|%31|3|HAYIR|%33|EVET|%44|3|HAYIR|%50|
EVET|%77|4|HAYIR|%8|EVET|%30|3|HAYIR|%33|EVET|%33|4|HAYIR|%8|EVET|%27|3|HAYIR|%41|EVET|%46|3|HAYIR|%25|EVET|%65|3|HAYIR|%0|EVET|%27|4|HAYIR|%
8|EVET|%36
438|2026-07-29 20:12:06|2|1/3|HAYIR|%43|%20|HAYIR|%22|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%40|C•B|EVET|%56|%58|DONGU_YON|FRAGMENTARY_2|BLOK
_TERS>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%47|1|HAYIR|%38|EVET|%40|3|HAYIR|%15|EVET|%29|1|HAYIR|%38|EVET|%36|3|HAYIR|%38|EVET|%35|1|HAYIR|%30|
EVET|%44|1|HAYIR|%46|EVET|%46|1|HAYIR|%7|EVET|%33|3|HAYIR|%30|EVET|%36|4|HAYIR|%7|EVET|%26|1|HAYIR|%38|EVET|%33|1|HAYIR|%23|EVET|%55|1|HAYIR|
%0|EVET|%25|1|HAYIR|%7|EVET|%31
439|2026-07-29 20:13:28|2|3/1|EVET|%43|%20|HAYIR|%22|%36|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%33|T•B|EVET|%56|%57|DONGU_YON|FRAGMENTARY_2|DALGA_
TEK_SIM_1>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%56|3|EVET|%35|EVET|%33|1|HAYIR|%14|EVET|%26|1|HAYIR|%35|EVET|%48|3|EVET|%35|EVET|%39|4|HA
YIR|%28|EVET|%42|3|EVET|%42|EVET|%37|3|EVET|%7|EVET|%44|3|EVET|%28|EVET|%29|4|HAYIR|%7|EVET|%26|3|EVET|%35|EVET|%31|3|EVET|%21|EVET|%48|2|HAY
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 440 ve sonrası)

```
IR|%0|EVET|%25|1|HAYIR|%7|EVET|%29
440|2026-07-29 20:14:23|3|1/4|HAYIR|%43|%20|HAYIR|%22|%58|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%45|T•K|EVET|%56|%54|DONGU_YON|FRAGMENTARY_2|BLOK
_DUZ>DONGU_TERS>DONGU||HAYIR|%71|1|HAYIR|%40|EVET|%45|2|HAYIR|%13|EVET|%27|1|HAYIR|%33|EVET|%43|4|HAYIR|%40|EVET|%28|1|HAYIR|%26|EVET|%43|1|H
AYIR|%46|EVET|%61|4|HAYIR|%13|EVET|%31|1|HAYIR|%33|EVET|%27|2|HAYIR|%6|EVET|%26|1|HAYIR|%40|EVET|%35|4|HAYIR|%26|EVET|%40|2|HAYIR|%0|EVET|%25
|1|HAYIR|%6|EVET|%34
441|2026-07-29 20:15:37|3|1/2|EVET|%43|%20|HAYIR|%22|%0|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%0|T•K|EVET|%56|%0|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>
TEPE>VADI|PATTERN_BREAK:0,59|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%
0|EVET|%0|2|EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|EVET|%0|EVET|%0
442|2026-07-30 20:28:26|2|4/3|EVET|%43|%21|HAYIR|%22|%53|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%34|C•B|EVET|%56|%56|TEPE_YON|FRAGMENTARY_2|TEPE>VA
DI>TEPE||HAYIR|%56|4|EVET|%0|EVET|%34|3|HAYIR|%0|EVET|%28|4|EVET|%0|EVET|%53|1|HAYIR|%0|EVET|%40|4|EVET|%0|EVET|%29|4|EVET|%0|EVET|%40|4|EVET
|%0|EVET|%30|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%33|4|EVET|%0|EVET|%84|2|HAYIR|%0|EVET|%26|4|EVET|%0|EVET|%29
443|2026-07-30 20:28:28|4|1/3|EVET|%43|%21|HAYIR|%22|%41|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|%31|C•B|HAYIR|%56|%52|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
|VADI>VADI>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%55|1|EVET|%0|EVET|%31|1|EVET|%0|EVET|%27|3|HAYIR|%0|EVET|%33|1|EVET|%0|EVET|%51|1|EVET|%0|EVET|%3
0|1|EVET|%0|EVET|%42|3|HAYIR|%0|EVET|%33|4|HAYIR|%0|EVET|%27|3|HAYIR|%0|EVET|%30|1|EVET|%0|EVET|%31|1|EVET|%0|EVET|%52|2|HAYIR|%0|EVET|%26|1|
EVET|%0|EVET|%28
444|2026-07-30 20:28:30|1|1/3|HAYIR|%43|%21|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%31|T•B|EVET|%56|%53|TEPE_YON|FRAGMENTARY_2|VADI>
DONGU>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%36|1|HAYIR|%0|EVET|%31|4|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%45|1|HAYIR|%0|EVET|%36|3|HAY
IR|%0|EVET|%32|2|HAYIR|%0|EVET|%38|2|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%27|3|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%50|2|HAYI
R|%0|EVET|%26|1|HAYIR|%0|EVET|%33
445|2026-07-30 20:28:32|4|4/2|HAYIR|%43|%21|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%32|C•B|HAYIR|%56|%58|VADI_YON|FRAGMENTARY_2|TEPE
>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%55|4|HAYIR|%0|EVET|%32|1|EVET|%0|EVET|%27|4|HAYIR|%0|EVET|%37|1|EVET|%0|EVET|%40|3|HAYIR|%0|EVET|%27|4|HA
YIR|%0|EVET|%32|3|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%41|3|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%29|4|HAYIR|%0|EVET|%64|3|HAYIR|%0|EVET|%27|3|HAY
IR|%0|EVET|%28
446|2026-07-30 20:28:34|1|1|EVET|%43|%21|HAYIR|%22|%66|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|%59|T•B|EVET|%56|%52|TEPE_YON|FRAGMENTARY_2|BLOK_TERS
>DONGU>TEPE||HAYIR|%76|1|EVET|%40|EVET|%59|3|HAYIR|%60|EVET|%28|1|EVET|%20|EVET|%100|1|EVET|%40|EVET|%49|1|EVET|%40|EVET|%44|1|EVET|%40|EVET|
%85|4|HAYIR|%40|EVET|%29|1|EVET|%0|EVET|%28|1|EVET|%20|EVET|%26|1|EVET|%40|EVET|%47|1|EVET|%40|EVET|%99|3|HAYIR|%0|EVET|%27|1|EVET|%60|EVET|%
30
447|2026-07-30 20:28:36|1|2/3|HAYIR|%43|%21|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%53|C•B|HAYIR|%56|%52|BLOK_TERS_TEKRAR|FRAGMENTAR
Y_2|VADI>DONGU>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%42|2|HAYIR|%50|EVET|%53|1|EVET|%50|EVET|%29|2|HAYIR|%33|EVET|%87|3|HAYIR|
%50|EVET|%43|2|HAYIR|%50|EVET|%43|2|HAYIR|%50|EVET|%65|3|HAYIR|%33|EVET|%32|2|HAYIR|%16|EVET|%32|1|EVET|%33|EVET|%28|2|HAYIR|%50|EVET|%47|2|H
AYIR|%50|EVET|%96|3|HAYIR|%0|EVET|%27|3|HAYIR|%66|EVET|%38
448|2026-07-30 20:28:38|1|3/4|HAYIR|%43|%21|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%41|T•B|EVET|%56|%54|DONGU_YON|FRAGMENTARY_2|VADI
>DONGU>DONGU|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%37|3|HAYIR|%42|EVET|%41|4|HAYIR|%57|EVET|%29|2|HAYIR|%28|EVET|%43|3|HAYIR|%42|EVET|%4
5|4|HAYIR|%42|EVET|%42|4|HAYIR|%42|EVET|%39|3|HAYIR|%28|EVET|%31|3|HAYIR|%14|EVET|%32|1|EVET|%42|EVET|%29|3|HAYIR|%42|EVET|%29|3|HAYIR|%42|EV
ET|%79|3|HAYIR|%0|EVET|%27|3|HAYIR|%57|EVET|%36
449|2026-07-30 20:28:41|1|2/3|HAYIR|%43|%21|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%44|T•B|EVET|%56|%53|TEPE_YON|FRAGMENTARY_2|TEPE>
VADI>TEPE|PATTERN_BREAK:0,59|EVET|%42|3|HAYIR|%37|EVET|%44|1|EVET|%50|EVET|%29|2|HAYIR|%25|EVET|%39|3|HAYIR|%37|EVET|%43|3|HAYIR|%37|EVET|%30
|3|HAYIR|%37|EVET|%45|4|HAYIR|%25|EVET|%29|1|EVET|%12|EVET|%31|1|EVET|%50|EVET|%30|3|HAYIR|%37|EVET|%30|1|EVET|%37|EVET|%25|3|HAYIR|%0|EVET|%
26|3|HAYIR|%50|EVET|%34
450|2026-07-30 20:28:43|1|1/3|HAYIR|%43|%21|HAYIR|%21|%48|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%43|T•B|HAYIR|%56|%53|DONGU_YON|FRAGMENTARY_2|TEP
E>TEPE>DONGU||HAYIR|%58|3|HAYIR|%33|EVET|%43|4|HAYIR|%55|EVET|%29|1|HAYIR|%22|EVET|%43|3|HAYIR|%33|EVET|%39|3|HAYIR|%33|EVET|%30|3|HAYIR|%33|
EVET|%45|2|EVET|%22|EVET|%30|1|HAYIR|%22|EVET|%33|1|HAYIR|%55|EVET|%31|3|HAYIR|%33|EVET|%29|1|HAYIR|%44|EVET|%34|3|HAYIR|%0|EVET|%26|1|HAYIR|
%44|EVET|%34
451|2026-07-30 20:28:47|2|3/2|EVET|%43|%21|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%34|C•B|EVET|%56|%50|DONGU_YON|FRAGMENTARY_2|DONGU>
BLOK_DUZ>DONGU|PATTERN_BREAK:0,59|EVET|%26|3|EVET|%30|EVET|%34|1|HAYIR|%50|EVET|%28|2|HAYIR|%20|EVET|%40|3|EVET|%30|EVET|%33|1|HAYIR|%30|EVET
|%34|3|EVET|%30|EVET|%33|4|HAYIR|%30|EVET|%31|3|EVET|%20|EVET|%29|4|HAYIR|%50|EVET|%27|3|EVET|%30|EVET|%27|3|EVET|%40|EVET|%93|3|EVET|%0|EVET
|%26|4|HAYIR|%40|EVET|%35
452|2026-07-30 20:28:50|3|1/4|HAYIR|%43|%21|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%38|C•K|HAYIR|%56|%54|VADI_YON|FRAGMENTARY_2|TEPE
>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%44|1|HAYIR|%36|EVET|%38|4|HAYIR|%45|EVET|%29|2|HAYIR|%18|EVET|%51|2|HAYIR|%36|EVET|%33|1|HAYIR|%27|EVET|%
38|1|HAYIR|%36|EVET|%55|4|HAYIR|%27|EVET|%31|1|HAYIR|%27|EVET|%38|2|HAYIR|%45|EVET|%28|1|HAYIR|%36|EVET|%31|1|HAYIR|%45|EVET|%76|2|HAYIR|%9|E
VET|%26|1|HAYIR|%36|EVET|%31
453|2026-07-30 20:28:53|3|1/2|EVET|%43|%21|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%47|C•K|EVET|%56|%54|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
|VADI>VADI>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%37|2|HAYIR|%33|EVET|%47|1|EVET|%41|EVET|%34|3|HAYIR|%16|EVET|%38|4|HAYIR|%33|EVET|%31|1|EVET|%25|
EVET|%29|2|HAYIR|%33|EVET|%34|2|HAYIR|%25|EVET|%36|1|EVET|%25|EVET|%39|2|HAYIR|%41|EVET|%27|2|HAYIR|%33|EVET|%31|1|EVET|%41|EVET|%81|2|HAYIR|
%8|EVET|%26|2|HAYIR|%33|EVET|%34
454|2026-07-30 20:29:09|1|2/1|HAYIR|%43|%21|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%45|C•B|EVET|%57|%52|TEPE_YON|FRAGMENTARY_2|BLOK_
DUZ>TEPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%28|2|HAYIR|%30|EVET|%45|3|EVET|%46|EVET|%28|4|HAYIR|%15|EVET|%67|4|HAYIR|%30|EVET|%3
3|2|HAYIR|%30|EVET|%42|2|HAYIR|%30|EVET|%60|4|HAYIR|%23|EVET|%28|1|HAYIR|%30|EVET|%30|1|HAYIR|%38|EVET|%31|2|HAYIR|%30|EVET|%34|2|HAYIR|%46|E
VET|%94|1|HAYIR|%7|EVET|%26|2|HAYIR|%30|EVET|%35
455|2026-07-30 20:29:13|3|1/4|HAYIR|%43|%21|EVET|%21|%34|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%44|T•B|EVET|%57|%51|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|
BLOK_DUZ>BLOK_TERS>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%49|4|EVET|%28|EVET|%44|1|HAYIR|%50|EVET|%48|4|EVET|%14|EVET|%53|4|EVET|%28|EVET|%35|3|HAY
IR|%28|EVET|%44|4|EVET|%28|EVET|%42|4|EVET|%21|EVET|%30|1|HAYIR|%28|EVET|%33|2|HAYIR|%35|EVET|%27|4|EVET|%28|EVET|%30|4|EVET|%42|EVET|%99|2|H
AYIR|%7|EVET|%26|4|EVET|%28|EVET|%32
456|2026-07-30 20:29:24|4|3/1|HAYIR|%43|%21|HAYIR|%21|%63|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%47|T•B|EVET|%57|%54|BLOK_DUZ_TEKRAR|FRAGMENTARY_
2|BLOK_DUZ>DONGU>BLOK_DUZ||HAYIR|%64|3|HAYIR|%33|EVET|%47|1|HAYIR|%46|EVET|%33|3|HAYIR|%20|EVET|%52|4|EVET|%33|EVET|%29|3|HAYIR|%26|EVET|%38|
3|HAYIR|%33|EVET|%60|3|HAYIR|%26|EVET|%31|3|HAYIR|%26|EVET|%36|3|HAYIR|%33|EVET|%29|3|HAYIR|%33|EVET|%39|3|HAYIR|%46|EVET|%93|2|HAYIR|%6|EVET
|%26|3|HAYIR|%33|EVET|%35
457|2026-07-30 20:29:27|4|4/1|HAYIR|%43|%21|EVET|%22|%25|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%35|C•K|EVET|%57|%52|DONGU_YON|FRAGMENTARY_2|BLOK_
DUZ>TEPE>DONGU|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%26|3|HAYIR|%31|EVET|%35|1|EVET|%43|EVET|%30|4|HAYIR|%18|EVET|%32|3|HAYIR|%37|EVET|%
29|4|HAYIR|%25|EVET|%29|3|HAYIR|%31|EVET|%36|1|EVET|%25|EVET|%29|1|EVET|%25|EVET|%33|3|HAYIR|%31|EVET|%29|3|HAYIR|%31|EVET|%30|4|HAYIR|%43|EV
ET|%61|2|HAYIR|%6|EVET|%26|3|HAYIR|%31|EVET|%34
458|2026-07-30 20:29:31|1|3/2|HAYIR|%43|%21|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%35|T•B|EVET|%57|%55|DONGU_YON|FRAGMENTARY_2|DALG
A_TEK_SIM_1>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%43|1|HAYIR|%29|EVET|%35|3|HAYIR|%47|EVET|%28|4|EVET|%17|EVET|%44|1|HAYIR|%35|EVET|%30|3|HAYI
R|%23|EVET|%29|3|HAYIR|%29|EVET|%29|4|EVET|%29|EVET|%28|1|HAYIR|%29|EVET|%31|1|HAYIR|%29|EVET|%30|4|EVET|%29|EVET|%27|3|HAYIR|%41|EVET|%39|3|
HAYIR|%5|EVET|%27|1|HAYIR|%29|EVET|%35
459|2026-07-30 20:29:35|4|1/4|HAYIR|%43|%21|EVET|%22|%30|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%38|C•B|EVET|%57|%54|DONGU_YON|FRAGMENTARY_2|VADI>D
ONGU>DONGU|PATTERN_BREAK:0,59|EVET|%41|4|EVET|%27|EVET|%38|1|HAYIR|%44|EVET|%33|4|EVET|%22|EVET|%47|1|HAYIR|%33|EVET|%34|4|EVET|%22|EVET|%42|
4|EVET|%27|EVET|%58|1|HAYIR|%33|EVET|%31|4|EVET|%27|EVET|%38|3|HAYIR|%27|EVET|%28|4|EVET|%33|EVET|%33|4|EVET|%38|EVET|%57|3|HAYIR|%5|EVET|%27
|3|HAYIR|%27|EVET|%25
460|2026-07-30 20:29:37|4|3/1|EVET|%43|%21|HAYIR|%22|%0|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%0|T•K|EVET|%57|%0|DONGU_YON|FRAGMENTARY_2|TEPE>VADI
>DONGU|PATTERN_BREAK:0,59|EVET|%0|3|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%
0|1|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0
461|2026-07-30 20:29:45|3|1/4|HAYIR|%43|%21|HAYIR|%22|%48|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%50|T•K|EVET|%57|%56|TEPE_YON|FRAGMENTARY_2|DONGU
_TERS>BLOK_DUZ>TEPE|PATTERN_BREAK:0,59|EVET|%72|1|HAYIR|%0|EVET|%50|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%75|3|HAYIR|%0|EVET|%39|1|HAYIR|%0|EV
ET|%45|1|HAYIR|%0|EVET|%77|4|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%35|2|EVET|%0|EVET|%26|1|HAYIR|%0|EVET|%43|1|HAYIR|%0|EVET|%88|3|HAYIR|%0|EVET
|%26|2|EVET|%0|EVET|%25
462|2026-07-30 20:29:48|2|4/3|EVET|%43|%21|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%30|C•B|EVET|%57|%55|TEPE_YON|FRAGMENTARY_2|DONGU>
TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%45|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%44|3|H
AYIR|%0|EVET|%46|4|EVET|%0|EVET|%31|4|EVET|%0|EVET|%38|3|HAYIR|%0|EVET|%27|3|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%38|3|HAYIR|%0|EVET|%26|4|EVET
|%0|EVET|%32
463|2026-07-30 20:29:51|4|1/4|HAYIR|%43|%21|HAYIR|%21|%54|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%34|T•B|EVET|%57|%56|VADI_YON|FRAGMENTARY_2|TEPE>
BLOK_DUZ>VADI||HAYIR|%60|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%51|2|HAYIR|%0|EVET|%41|2|HAYIR|%0|EVET|
%44|3|EVET|%0|EVET|%30|4|HAYIR|%0|EVET|%36|3|EVET|%0|EVET|%27|1|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%60|2|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%32
464|2026-07-30 20:29:54|3|4/1|HAYIR|%43|%21|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%26|%31|T•B|HAYIR|%57|%51|VADI_YON|FRAGMENTARY_2|BLOK_
TERS>BLOK_DUZ>VADI|PATTERN_BREAK:0,59|EVET|%39|2|EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%44|3|HAYIR|%0|EVET|%48|3|HAYIR|%0|EVET|%42|4|HAYIR|%0|EVET
|%31|2|EVET|%0|EVET|%37|4|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%30|2|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%27|2|EVET|%0|EVET|%51|2|EVET|%0|EVET|%26|
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 465 ve sonrası)

```
2|EVET|%0|EVET|%29
465|2026-07-30 20:29:57|2|4/1|HAYIR|%43|%21|HAYIR|%21|%40|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%39|C•B|EVET|%57|%56|TEPE_YON|FRAGMENTARY_2|TEKRAR>DONGU>TEPE||HAYIR|%45|4|HAYIR|%40|EVET|%39|1|HAYIR|%0|EVET|%32|4|HAYIR|%20|EVET|%36|3|HAYIR|%20|EVET|%33|4|HAYIR|%20|EVET|%43|4|HAYIR|%40|EVET|%41|4|HAYIR|%40|EVET|%33|1|HAYIR|%40|EVET|%32|4|HAYIR|%80|EVET|%28|4|HAYIR|%20|EVET|%33|3|HAYIR|%40|EVET|%36|2|EVET|%40|EVET|%26|4|HAYIR|%80|EVET|%35
466|2026-07-30 20:30:00|2|3/4|HAYIR|%43|%21|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%26|%27|T•K|EVET|%58|%55|DONGU_TERS_YON|FRAGMENTARY_2|TEKRAR>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%47|1|EVET|%33|EVET|%27|3|HAYIR|%0|EVET|%28|4|HAYIR|%16|EVET|%47|3|HAYIR|%16|EVET|%37|2|HAYIR|%16|EVET|%42|2|HAYIR|%33|EVET|%33|1|EVET|%33|EVET|%31|3|HAYIR|%33|EVET|%29|4|HAYIR|%66|EVET|%27|4|HAYIR|%16|EVET|%27|4|HAYIR|%33|EVET|%41|2|HAYIR|%50|EVET|%26|3|HAYIR|%66|EVET|%29
467|2026-07-30 20:30:03|1|1/2|EVET|%43|%21|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%38|C•K|EVET|%58|%52|BLOK_TERS_TEKRAR|FRAGMENTARY_2|BLOK_DUZ>DONGU>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%42|EVET|%38|1|EVET|%0|EVET|%34|3|HAYIR|%14|EVET|%49|3|HAYIR|%14|EVET|%35|2|HAYIR|%14|EVET|%42|2|HAYIR|%28|EVET|%61|4|HAYIR|%42|EVET|%29|1|EVET|%28|EVET|%27|1|EVET|%57|EVET|%30|2|HAYIR|%14|EVET|%33|2|HAYIR|%28|EVET|%65|2|HAYIR|%42|EVET|%26|1|EVET|%57|EVET|%36
468|2026-07-30 20:30:06|1|1/3|HAYIR|%43|%21|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%37|T•B|EVET|%58|%54|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>DONGU>VADI|REGIME_SHIFT:0,75|EVET|%42|3|HAYIR|%37|EVET|%37|3|HAYIR|%12|EVET|%28|3|HAYIR|%12|EVET|%45|2|HAYIR|%12|EVET|%37|3|HAYIR|%12|EVET|%31|3|HAYIR|%25|EVET|%45|3|HAYIR|%37|EVET|%32|1|HAYIR|%37|EVET|%30|1|HAYIR|%62|EVET|%31|3|HAYIR|%12|EVET|%33|3|HAYIR|%25|EVET|%85|2|HAYIR|%37|EVET|%26|1|HAYIR|%62|EVET|%32
469|2026-07-30 20:30:11|4|3/1|EVET|%43|%21|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%31|T•B|EVET|%58|%54|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%31|4|HAYIR|%33|EVET|%31|1|HAYIR|%11|EVET|%33|3|EVET|%11|EVET|%56|2|HAYIR|%11|EVET|%34|3|EVET|%11|EVET|%43|3|EVET|%22|EVET|%45|3|EVET|%33|EVET|%32|1|HAYIR|%33|EVET|%28|3|EVET|%55|EVET|%28|3|EVET|%11|EVET|%33|3|EVET|%22|EVET|%59|3|EVET|%33|EVET|%26|4|HAYIR|%55|EVET|%30
470|2026-07-30 20:30:21|3|2/4|HAYIR|%43|%21|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%32|T•K|EVET|%58|%56|BLOK_TERS_TEKRAR|FRAGMENTARY_2|TEPE>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%63|2|HAYIR|%30|EVET|%32|3|HAYIR|%10|EVET|%28|3|HAYIR|%20|EVET|%47|3|HAYIR|%10|EVET|%45|3|HAYIR|%20|EVET|%44|3|HAYIR|%30|EVET|%47|4|HAYIR|%40|EVET|%31|2|HAYIR|%30|EVET|%26|2|HAYIR|%60|EVET|%29|3|HAYIR|%20|EVET|%34|2|HAYIR|%30|EVET|%75|3|HAYIR|%40|EVET|%26|2|HAYIR|%50|EVET|%32
471|2026-07-30 20:30:25|1|4/3|EVET|%43|%21|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%34|C•B|EVET|%58|%56|BLOK_TERS_TEKRAR|FRAGMENTARY_2|VADI>VADI>BLOK_TERS|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%27|EVET|%34|1|HAYIR|%9|EVET|%35|1|HAYIR|%18|EVET|%31|4|EVET|%9|EVET|%40|4|EVET|%18|EVET|%42|2|HAYIR|%27|EVET|%34|4|EVET|%36|EVET|%30|1|HAYIR|%27|EVET|%35|1|HAYIR|%54|EVET|%30|4|EVET|%18|EVET|%27|1|HAYIR|%27|EVET|%48|3|HAYIR|%36|EVET|%26|2|HAYIR|%45|EVET|%32
472|2026-07-30 20:30:38|4|3/4|HAYIR|%43|%21|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%42|C•B|HAYIR|%58|%56|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%25|EVET|%42|4|HAYIR|%8|EVET|%29|4|HAYIR|%16|EVET|%60|4|HAYIR|%16|EVET|%42|4|HAYIR|%25|EVET|%43|4|HAYIR|%25|EVET|%57|3|HAYIR|%41|EVET|%33|4|HAYIR|%25|EVET|%47|3|HAYIR|%50|EVET|%29|4|HAYIR|%25|EVET|%38|3|HAYIR|%25|EVET|%58|3|HAYIR|%33|EVET|%26|3|HAYIR|%41|EVET|%29
473|2026-07-30 20:30:40|1|1/4|HAYIR|%43|%21|EVET|%21|%46|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%51|C•B|EVET|%58|%54|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%71|1|HAYIR|%23|EVET|%51|1|HAYIR|%7|EVET|%32|1|HAYIR|%15|EVET|%100|1|HAYIR|%15|EVET|%49|1|HAYIR|%23|EVET|%46|1|HAYIR|%23|EVET|%73|4|EVET|%38|EVET|%31|1|HAYIR|%23|EVET|%35|1|HAYIR|%46|EVET|%30|1|HAYIR|%23|EVET|%47|1|HAYIR|%23|EVET|%99|3|HAYIR|%30|EVET|%26|1|HAYIR|%38|EVET|%33
474|2026-07-30 20:30:42|4|4/1|EVET|%43|%21|HAYIR|%21|%46|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%33|T•K|HAYIR|%58|%55|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEPE||HAYIR|%57|4|EVET|%21|EVET|%33|4|EVET|%7|EVET|%29|4|EVET|%14|EVET|%44|1|HAYIR|%14|EVET|%46|4|EVET|%21|EVET|%28|4|EVET|%21|EVET|%35|3|HAYIR|%42|EVET|%32|4|EVET|%21|EVET|%43|3|HAYIR|%42|EVET|%29|4|EVET|%21|EVET|%30|4|EVET|%21|EVET|%68|3|HAYIR|%28|EVET|%26|3|HAYIR|%35|EVET|%27
475|2026-07-30 20:30:44|4|3/1|HAYIR|%43|%21|EVET|%21|%44|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%58|T•B|EVET|%58|%60|TEPE_YON|FRAGMENTARY_2|VADI>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%65|3|HAYIR|%26|EVET|%58|1|EVET|%13|EVET|%28|3|HAYIR|%20|EVET|%88|4|HAYIR|%13|EVET|%42|3|HAYIR|%26|EVET|%42|3|HAYIR|%26|EVET|%72|1|EVET|%40|EVET|%31|3|HAYIR|%26|EVET|%34|3|HAYIR|%40|EVET|%28|3|HAYIR|%26|EVET|%47|3|HAYIR|%26|EVET|%93|3|HAYIR|%26|EVET|%26|3|HAYIR|%33|EVET|%30
476|2026-07-30 20:30:47|1|4/1|HAYIR|%43|%21|HAYIR|%21|%40|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%39|T•B|EVET|%58|%53|DONGU_YON|FRAGMENTARY_2|VADI>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%67|4|HAYIR|%25|EVET|%39|4|HAYIR|%18|EVET|%29|4|HAYIR|%18|EVET|%51|3|EVET|%12|EVET|%41|3|EVET|%25|EVET|%42|3|EVET|%25|EVET|%42|4|HAYIR|%43|EVET|%34|4|HAYIR|%25|EVET|%37|1|HAYIR|%37|EVET|%29|4|HAYIR|%25|EVET|%30|4|HAYIR|%25|EVET|%38|1|HAYIR|%25|EVET|%26|4|HAYIR|%31|EVET|%34
477|2026-07-30 20:30:50|3|4/2|HAYIR|%43|%21|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%50|C•K|EVET|%58|%55|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%65|4|HAYIR|%23|EVET|%50|1|EVET|%17|EVET|%30|4|HAYIR|%17|EVET|%72|3|HAYIR|%17|EVET|%30|4|HAYIR|%29|EVET|%31|4|HAYIR|%29|EVET|%47|4|HAYIR|%41|EVET|%31|4|HAYIR|%23|EVET|%39|2|HAYIR|%35|EVET|%28|4|HAYIR|%23|EVET|%36|4|HAYIR|%23|EVET|%78|1|EVET|%23|EVET|%26|4|HAYIR|%29|EVET|%35
478|2026-07-30 20:30:53|1|3/1|HAYIR|%43|%21|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%32|T•B|HAYIR|%58|%52|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_TERS>BLOK_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|3|HAYIR|%22|EVET|%32|3|HAYIR|%22|EVET|%29|3|HAYIR|%16|EVET|%40|4|HAYIR|%16|EVET|%45|3|HAYIR|%27|EVET|%36|3|HAYIR|%27|EVET|%37|4|HAYIR|%38|EVET|%33|4|HAYIR|%22|EVET|%33|1|HAYIR|%33|EVET|%29|3|HAYIR|%22|EVET|%30|3|HAYIR|%22|EVET|%95|1|HAYIR|%27|EVET|%26|2|EVET|%27|EVET|%30
479|2026-07-30 20:30:57|2|4/1|HAYIR|%43|%21|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%40|T•B|HAYIR|%58|%57|DONGU_TERS_YON|FRAGMENTARY_2|VADI>BLOK_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%21|EVET|%40|1|HAYIR|%21|EVET|%31|4|HAYIR|%15|EVET|%60|2|EVET|%15|EVET|%34|4|HAYIR|%26|EVET|%31|4|HAYIR|%26|EVET|%44|4|HAYIR|%36|EVET|%33|4|HAYIR|%21|EVET|%36|4|HAYIR|%31|EVET|%27|4|HAYIR|%21|EVET|%34|4|HAYIR|%21|EVET|%79|1|HAYIR|%26|EVET|%26|3|HAYIR|%31|EVET|%33
480|2026-07-30 20:30:58|2|2/3|HAYIR|%43|%21|EVET|%21|%28|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%32|T•K|EVET|%58|%52|TEPE_YON|FRAGMENTARY_2|DONGU>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%30|1|HAYIR|%20|EVET|%32|4|HAYIR|%20|EVET|%29|2|HAYIR|%15|EVET|%27|1|HAYIR|%20|EVET|%35|3|EVET|%25|EVET|%30|1|HAYIR|%25|EVET|%33|1|HAYIR|%35|EVET|%36|3|EVET|%20|EVET|%32|4|HAYIR|%30|EVET|%27|1|HAYIR|%20|EVET|%29|2|HAYIR|%20|EVET|%76|1|HAYIR|%25|EVET|%26|1|HAYIR|%30|EVET|%31
481|2026-07-30 20:31:03|3|2/1|HAYIR|%43|%21|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%31|C•K|EVET|%58|%54|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%19|EVET|%31|1|HAYIR|%19|EVET|%31|4|EVET|%14|EVET|%37|1|HAYIR|%19|EVET|%29|2|HAYIR|%28|EVET|%41|2|HAYIR|%23|EVET|%30|4|EVET|%33|EVET|%30|1|HAYIR|%23|EVET|%33|2|HAYIR|%28|EVET|%28|1|HAYIR|%19|EVET|%28|4|EVET|%19|EVET|%55|1|HAYIR|%23|EVET|%26|1|HAYIR|%28|EVET|%30
482|2026-07-30 20:31:05|4|3/1|HAYIR|%43|%21|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%47|C•K|EVET|%58|%54|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%64|3|HAYIR|%18|EVET|%47|3|HAYIR|%18|EVET|%29|3|HAYIR|%18|EVET|%40|1|HAYIR|%18|EVET|%36|3|HAYIR|%27|EVET|%34|3|HAYIR|%22|EVET|%50|3|HAYIR|%36|EVET|%31|1|HAYIR|%22|EVET|%31|3|HAYIR|%27|EVET|%28|3|HAYIR|%18|EVET|%32|3|HAYIR|%22|EVET|%91|3|HAYIR|%22|EVET|%26|3|HAYIR|%27|EVET|%33
483|2026-07-30 20:31:06|2|3/1|EVET|%43|%21|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%30|T•B|EVET|%58|%62|TEPE_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%38|1|HAYIR|%17|EVET|%30|1|HAYIR|%17|EVET|%32|3|EVET|%17|EVET|%64|1|HAYIR|%17|EVET|%37|1|HAYIR|%26|EVET|%26|2|HAYIR|%21|EVET|%32|4|HAYIR|%34|EVET|%32|1|HAYIR|%21|EVET|%36|3|EVET|%26|EVET|%27|3|EVET|%17|EVET|%28|3|EVET|%21|EVET|%39|3|EVET|%21|EVET|%26|2|HAYIR|%26|EVET|%28
484|2026-07-30 20:31:08|3|1/4|EVET|%43|%21|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/4|EVET|%25|%41|T•K|EVET|%58|%53|VADI_YON|FRAGMENTARY_2|BLOK_TERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%39|1|EVET|%16|EVET|%41|4|HAYIR|%16|EVET|%27|1|EVET|%20|EVET|%72|1|EVET|%16|EVET|%32|1|EVET|%25|EVET|%37|1|EVET|%20|EVET|%53|4|HAYIR|%33|EVET|%31|4|HAYIR|%20|EVET|%41|2|HAYIR|%29|EVET|%27|1|EVET|%20|EVET|%37|1|EVET|%25|EVET|%99|3|HAYIR|%25|EVET|%26|1|EVET|%25|EVET|%28
485|2026-07-30 20:31:10|1|2/3|HAYIR|%43|%21|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%32|C•B|HAYIR|%58|%54|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%45|2|HAYIR|%20|EVET|%32|1|EVET|%16|EVET|%31|2|HAYIR|%24|EVET|%38|4|HAYIR|%20|EVET|%35|1|EVET|%28|EVET|%33|1|EVET|%24|EVET|%33|4|HAYIR|%32|EVET|%31|1|EVET|%20|EVET|%30|1|EVET|%28|EVET|%28|3|HAYIR|%24|EVET|%26|2|HAYIR|%28|EVET|%79|3|HAYIR|%24|EVET|%26|2|HAYIR|%28|EVET|%33
486|2026-07-30 20:31:11|1|3/1|HAYIR|%43|%21|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%39|C•K|EVET|%58|%52|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%34|3|HAYIR|%19|EVET|%39|4|EVET|%19|EVET|%29|3|HAYIR|%23|EVET|%42|3|HAYIR|%19|EVET|%34|1|HAYIR|%30|EVET|%47|1|HAYIR|%26|EVET|%54|3|HAYIR|%30|EVET|%29|1|HAYIR|%23|EVET|%28|1|HAYIR|%30|EVET|%29|3|HAYIR|%23|EVET|%30|3|HAYIR|%26|EVET|%96|3|HAYIR|%23|EVET|%26|1|HAYIR|%26|EVET|%30
487|2026-07-30 20:31:30|4|3/1|EVET|%43|%21|HAYIR|%21|%58|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%31|T•B|EVET|%58|%54|TEPE_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>TEPE||HAYIR|%59|3|EVET|%18|EVET|%31|1|HAYIR|%22|EVET|%30|3|EVET|%22|EVET|%80|4|HAYIR|%18|EVET|%33|3|EVET|%29|EVET|%36|3|EVET|%25|EVET|%54|3|EVET|%29|EVET|%30|1|HAYIR|%22|EVET|%35|3|EVET|%29|EVET|%27|3|EVET|%22|EVET|%37|3|EVET|%25|EVET|%72|3|EVET|%22|EVET|%26|4|HAYIR|%25|EVET|%30
488|2026-07-30 20:31:36|3|2/1|EVET|%43|%22|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%33|C•K|EVET|%58|%54|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%21|EVET|%33|4|HAYIR|%21|EVET|%30|1|HAYIR|%25|EVET|%66|3|HAYIR|%17|EVET|%40|3|HAYIR|%32|EVET|%35|3|HAYIR|%28|EVET|%46|4|HAYIR|%32|EVET|%30|1|HAYIR|%21|EVET|%37|2|EVET|%32|EVET|%27|1|HAYIR|%25|EVET|%31|2|EVET|%28|EVET|%71|3|HAYIR|%25|EVET
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 489 ve sonrası)

```
↳ |%26|2|EVET|%25|EVET|%30
490 489|2026-07-30 20:31:40|2|2/3|HAYIR|%43|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%38|T•B|EVET|%59|%58|DONGU_YON|FRAGMENTARY_2|DONG
↳ U>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%44|2|HAYIR|%20|EVET|%38|1|EVET|%20|EVET|%30|2|HAYIR|%24|EVET|%46|1|EVET|%17|EVET|%26|2|HAYIR|%31|EVET|%
↳ 41|2|HAYIR|%27|EVET|%54|4|HAYIR|%31|EVET|%31|4|HAYIR|%20|EVET|%31|3|HAYIR|%34|EVET|%28|2|HAYIR|%24|EVET|%33|2|HAYIR|%31|EVET|%34|1|EVET|%24|E
↳ VET|%26|4|HAYIR|%27|EVET|%32
491 490|2026-07-30 20:31:47|1|2/4|EVET|%43|%22|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|T•K|EVET|%59|%52|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%20|EVET|%36|4|HAYIR|%23|EVET|%29|2|EVET|%23|EVET|%31|3|HAYIR|%20|EVET|%37|1|HAYIR|%30|EVET|%34
↳ |1|HAYIR|%26|EVET|%47|4|HAYIR|%30|EVET|%31|4|HAYIR|%20|EVET|%43|1|HAYIR|%33|EVET|%29|1|HAYIR|%23|EVET|%28|2|EVET|%30|EVET|%75|1|HAYIR|%26|EVE
↳ T|%26|1|HAYIR|%26|EVET|%39
492 491|2026-07-30 20:31:56|2|3/1|EVET|%43|%22|HAYIR|%21|%43|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%53|T•B|EVET|%59|%55|VADI_YON|FRAGMENTARY_2|VADI>TE
↳ PE>VADI|PATTERN_BREAK:0,59|EVET|%56|3|EVET|%19|EVET|%53|1|HAYIR|%22|EVET|%32|3|EVET|%25|EVET|%54|3|EVET|%19|EVET|%34|3|EVET|%29|EVET|%42|3|EV
↳ ET|%25|EVET|%77|4|HAYIR|%29|EVET|%30|4|HAYIR|%19|EVET|%30|3|EVET|%32|EVET|%27|3|EVET|%22|EVET|%40|3|EVET|%32|EVET|%99|1|HAYIR|%25|EVET|%26|3|
↳ EVET|%25|EVET|%31
493 492|2026-07-30 20:32:02|3|1/2|HAYIR|%43|%22|EVET|%21|%46|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%47|C•K|EVET|%59|%56|TEPE_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_3>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%58|1|HAYIR|%21|EVET|%47|3|HAYIR|%21|EVET|%28|1|HAYIR|%28|EVET|%41|3|HAYIR|%21|EVET|%28|1|HAYIR|%
↳ 31|EVET|%46|1|HAYIR|%28|EVET|%63|4|HAYIR|%28|EVET|%29|2|EVET|%18|EVET|%27|2|EVET|%34|EVET|%28|1|HAYIR|%25|EVET|%36|1|HAYIR|%34|EVET|%76|1|HAY
↳ IR|%25|EVET|%26|1|HAYIR|%28|EVET|%32
494 493|2026-07-30 20:32:08|2|1/4|HAYIR|%43|%22|EVET|%21|%27|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%30|T•K|HAYIR|%59|%60|ZIGZAK_KOM_SALINIMM|FRAGMENTA
↳ RY_2|VADI>TEPE>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%33|4|EVET|%21|EVET|%30|1|HAYIR|%21|EVET|%35|3|HAYIR|%27|EVET|%29|4|EVET|%21|EVET|%29|1|HAY
↳ IR|%30|EVET|%29|2|HAYIR|%27|EVET|%28|3|HAYIR|%27|EVET|%29|2|HAYIR|%21|EVET|%30|3|HAYIR|%36|EVET|%28|3|HAYIR|%24|EVET|%26|4|EVET|%33|EVET|%70|
↳ 1|HAYIR|%24|EVET|%26|4|EVET|%27|EVET|%30
495 494|2026-07-30 20:32:13|4|1/3|EVET|%44|%22|HAYIR|%21|%0|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%0|T•K|EVET|%59|%0|VADI_YON|FRAGMENTARY_2|DONGU_TERS
↳ >TEPE>VADI|PATTERN_BREAK:0,59|EVET|%0|1|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|1|EVET|%0|EVET|%0|1|EVET|%0|E
↳ VET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|1|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0
496 495|2026-08-03 17:57:19|1|4/1|EVET|%44|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%38|T•B|EVET|%59|%52|DONGU_TERS_YON|FRAGMENTARY_2|D
↳ ONGU_TERS>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%41|4|EVET|%0|EVET|%38|1|HAYIR|%0|EVET|%30|4|EVET|%0|EVET|%51|1|HAYIR|%0|EVET|%34|1|HAYIR|%
↳ 0|EVET|%33|2|HAYIR|%0|EVET|%30|4|EVET|%0|EVET|%30|1|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%29|4|EVET|%0|EVET|%54|3|HAYIR|%0|EV
↳ ET|%27|1|HAYIR|%0|EVET|%31
497 496|2026-08-03 17:57:20|4|4/1|HAYIR|%44|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%32|C•K|EVET|%59|%54|VADI_YON|FRAGMENTARY_2|VADI>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%30|1|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%46|4|HAYIR|%0|EVET|%44|1|HAYIR|%0|EVET|%46|1|H
↳ AYIR|%0|EVET|%48|3|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%41|3|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%77|3|HAYIR|%0|EVET|%26|3|HA
↳ YIR|%0|EVET|%29
498 497|2026-08-03 17:57:21|2|1/2|HAYIR|%43|%22|HAYIR|%21|%44|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%43|T•B|EVET|%59|%57|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_DUZ>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%57|1|HAYIR|%0|EVET|%43|1|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%69|1|HAYIR|%0|EVET|%39|1|HAYI
↳ R|%0|EVET|%45|1|HAYIR|%0|EVET|%57|4|EVET|%0|EVET|%30|1|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%41|1|HAYIR|%0|EVET|%57|1|HAYIR|
↳ %0|EVET|%26|2|HAYIR|%0|EVET|%27
499 498|2026-08-03 17:57:23|4|1/4|EVET|%44|%22|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%35|T•K|EVET|%59|%58|DONGU_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%50|1|EVET|%0|EVET|%35|2|HAYIR|%0|EVET|%27|1|EVET|%0|EVET|%74|1|EVET|%0|EVET|%31|4|HAYIR|%0|EVET|%29|1|
↳ EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%29|1|EVET|%0|EVET|%29|3|HAYIR|%0|EVET|%30|1|EVET|%0|EVET|%35|4|HAYIR|%0|EVET|%43|1|EVET|%0|EVET|%26|1|EVET|
↳ %0|EVET|%31
500 499|2026-08-03 17:57:24|1|4/1|HAYIR|%44|%22|EVET|%21|%62|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%47|T•B|EVET|%59|%53|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ VADI>DONGU||HAYIR|%59|4|HAYIR|%60|EVET|%47|1|EVET|%0|EVET|%30|4|HAYIR|%40|EVET|%69|1|EVET|%40|EVET|%29|4|HAYIR|%20|EVET|%44|4|HAYIR|%40|EVET|
↳ %50|4|HAYIR|%40|EVET|%32|4|HAYIR|%40|EVET|%35|1|EVET|%0|EVET|%27|4|HAYIR|%60|EVET|%40|4|HAYIR|%40|EVET|%66|1|EVET|%20|EVET|%26|1|EVET|%40|EVE
↳ T|%30
501 500|2026-08-03 17:57:25|1|2/4|HAYIR|%44|%22|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%33|C•K|EVET|%59|%52|DONGU_YON|FRAGMENTARY_2|DONG
↳ U_TERS>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%50|EVET|%33|2|HAYIR|%16|EVET|%26|2|HAYIR|%33|EVET|%56|3|HAYIR|%50|EVET|%38|3|HAYIR|%16
↳ |EVET|%33|3|HAYIR|%33|EVET|%43|4|HAYIR|%33|EVET|%28|1|EVET|%33|EVET|%29|1|EVET|%16|EVET|%27|2|HAYIR|%50|EVET|%31|2|HAYIR|%33|EVET|%62|1|EVET|
↳ %33|EVET|%26|3|HAYIR|%50|EVET|%33
502 501|2026-08-03 17:57:27|1|3/1|HAYIR|%44|%22|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|T•B|HAYIR|%59|%50|DONGU_YON|FRAGMENTARY_2|DON
↳ GU_TERS>ZIGZAK_KOM>DONGU|PATTERN_BREAK:0,59|EVET|%54|1|HAYIR|%42|EVET|%32|1|HAYIR|%14|EVET|%31|1|HAYIR|%28|EVET|%35|1|HAYIR|%42|EVET|%32|1|HA
↳ YIR|%14|EVET|%35|1|HAYIR|%28|EVET|%34|3|HAYIR|%28|EVET|%29|1|HAYIR|%42|EVET|%37|1|HAYIR|%28|EVET|%28|1|HAYIR|%42|EVET|%31|3|HAYIR|%28|EVET|%6
↳ 8|1|HAYIR|%42|EVET|%26|3|HAYIR|%42|EVET|%32
503 502|2026-08-03 17:57:28|2|3/4|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%45|T•B|EVET|%59|%53|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >VADI>DONGU|PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%37|EVET|%45|4|HAYIR|%12|EVET|%26|3|HAYIR|%25|EVET|%41|2|HAYIR|%37|EVET|%29|1|EVET|%12|EVET|%
↳ 30|3|HAYIR|%25|EVET|%39|4|HAYIR|%25|EVET|%32|3|HAYIR|%37|EVET|%31|3|HAYIR|%25|EVET|%27|3|HAYIR|%37|EVET|%32|3|HAYIR|%25|EVET|%92|1|EVET|%37|E
↳ VET|%26|4|HAYIR|%37|EVET|%32
504 503|2026-08-03 17:57:28|1|4/3|HAYIR|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%36|C•K|EVET|%59|%53|DONGU_YON|FRAGMENTARY_2|VADI
↳ >DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%45|4|HAYIR|%33|EVET|%36|1|EVET|%11|EVET|%30|3|HAYIR|%22|EVET|%30|3|HAYIR|%33|EVET|%38|4|HAYIR|%22|
↳ EVET|%43|4|HAYIR|%22|EVET|%68|4|HAYIR|%22|EVET|%31|2|HAYIR|%33|EVET|%32|1|EVET|%22|EVET|%27|4|HAYIR|%33|EVET|%34|4|HAYIR|%22|EVET|%93|1|EVET|
↳ %44|EVET|%26|1|EVET|%33|EVET|%36
505 504|2026-08-03 17:57:29|1|3/4|HAYIR|%43|%22|EVET|%21|%35|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%30|T•B|EVET|%60|%56|TEPE_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>TEPE|PATTERN_BREAK:0,59|EVET|%60|3|HAYIR|%30|EVET|%30|4|EVET|%20|EVET|%26|3|HAYIR|%20|EVET|%46|3|HAYIR|%30|EVET|%29|1|HAYIR|%20|EVET|%28|
↳ 3|HAYIR|%20|EVET|%41|2|HAYIR|%20|EVET|%27|1|HAYIR|%30|EVET|%36|1|HAYIR|%30|EVET|%28|3|HAYIR|%30|EVET|%29|3|HAYIR|%20|EVET|%80|3|HAYIR|%50|EVE
↳ T|%26|3|HAYIR|%40|EVET|%32
506 505|2026-08-03 17:57:32|4|3/4|HAYIR|%43|%22|HAYIR|%21|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%44|T•B|EVET|%60|%55|VADI_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%62|3|HAYIR|%27|EVET|%44|1|EVET|%27|EVET|%31|3|HAYIR|%18|EVET|%92|1|EVET|%27|EVET|%31|3|HAYIR|%18|EVE
↳ T|%40|3|HAYIR|%18|EVET|%75|1|EVET|%18|EVET|%31|1|EVET|%27|EVET|%37|3|HAYIR|%27|EVET|%30|3|HAYIR|%27|EVET|%41|3|HAYIR|%18|EVET|%92|3|HAYIR|%45
↳ |EVET|%26|3|HAYIR|%36|EVET|%28
507 506|2026-08-03 17:57:32|1|1/4|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%43|C•K|HAYIR|%59|%56|TEPE_YON|FRAGMENTARY_2|AZAL
↳ IS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%25|EVET|%43|4|HAYIR|%33|EVET|%29|1|HAYIR|%16|EVET|%70|1|HAYIR|%33|EVET|%33|1|HAYIR|%16|EVE
↳ T|%44|1|HAYIR|%16|EVET|%60|4|HAYIR|%25|EVET|%31|4|HAYIR|%33|EVET|%34|1|HAYIR|%25|EVET|%28|1|HAYIR|%25|EVET|%38|1|HAYIR|%16|EVET|%94|3|EVET|%4
↳ 1|EVET|%26|1|HAYIR|%33|EVET|%32
508 507|2026-08-03 17:57:33|3|4/1|HAYIR|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%43|C•K|HAYIR|%59|%56|DONGU_TERS_YON|FRAGMENTARY_
↳ 2|VADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%27|4|HAYIR|%23|EVET|%43|1|HAYIR|%30|EVET|%32|1|HAYIR|%15|EVET|%41|4|HAYIR|%30|EVET|%27|1|HAY
↳ IR|%15|EVET|%28|4|HAYIR|%15|EVET|%40|2|HAYIR|%23|EVET|%29|1|HAYIR|%30|EVET|%43|2|HAYIR|%23|EVET|%28|1|HAYIR|%23|EVET|%29|4|HAYIR|%15|EVET|%57
↳ |3|EVET|%46|EVET|%26|4|HAYIR|%30|EVET|%33
509 508|2026-08-03 17:57:34|3|4/3|HAYIR|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%41|T•K|EVET|%59|%51|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%21|EVET|%41|4|HAYIR|%28|EVET|%27|2|HAYIR|%14|EVET|%31|2|HAYIR|%28|EVET|%38|2|HAYI
↳ R|%14|EVET|%30|2|HAYIR|%14|EVET|%46|2|HAYIR|%21|EVET|%34|3|HAYIR|%28|EVET|%32|2|HAYIR|%21|EVET|%28|2|HAYIR|%21|EVET|%32|2|HAYIR|%14|EVET|%81|
↳ 3|HAYIR|%50|EVET|%26|2|HAYIR|%28|EVET|%32
510 509|2026-08-03 17:57:37|1|3/4|HAYIR|%43|%22|EVET|%21|%49|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%36|C•B|EVET|%60|%52|VADI_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU>VADI||HAYIR|%57|2|HAYIR|%20|EVET|%36|1|HAYIR|%26|EVET|%33|4|EVET|%13|EVET|%51|4|EVET|%26|EVET|%35|2|HAYIR|%13|EVET|%30|2|HAYIR|%13|EVET|
↳ %48|4|EVET|%20|EVET|%30|1|HAYIR|%26|EVET|%29|1|HAYIR|%20|EVET|%28|2|HAYIR|%20|EVET|%28|2|HAYIR|%13|EVET|%68|3|HAYIR|%46|EVET|%26|2|HAYIR|%26|
↳ EVET|%34
511 510|2026-08-03 17:57:38|4|1/4|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%30|T•K|EVET|%60|%52|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%39|3|EVET|%18|EVET|%30|4|HAYIR|%25|EVET|%27|3|EVET|%18|EVET|%47|4|HAYIR|%31|EVET|%40|3|EVET|%12|EVET|%41|
↳ 3|EVET|%12|EVET|%48|1|HAYIR|%25|EVET|%33|1|HAYIR|%25|EVET|%35|3|EVET|%18|EVET|%30|3|EVET|%18|EVET|%30|3|EVET|%12|EVET|%38|1|HAYIR|%43|EVET|%2
↳ 7|3|EVET|%25|EVET|%27
512 511|2026-08-03 17:57:39|3|2/1|HAYIR|%43|%22|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%48|C•K|EVET|%60|%51|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%32|2|HAYIR|%23|EVET|%48|1|HAYIR|%23|EVET|%31|2|HAYIR|%23|EVET|%73|3|HAYIR|%29|EVET|%37|2|HAYIR|%17|EVET|%
↳ 40|2|HAYIR|%17|EVET|%65|2|HAYIR|%23|EVET|%29|1|HAYIR|%23|EVET|%36|2|HAYIR|%23|EVET|%28|2|HAYIR|%23|EVET|%39|2|HAYIR|%17|EVET|%61|1|HAYIR|%41|
↳ EVET|%27|2|HAYIR|%29|EVET|%29
513 512|2026-08-03 17:57:40|4|3/2|EVET|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%39|T•K|EVET|%60|%55|VADI_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%39|3|EVET|%22|EVET|%39|3|EVET|%22|EVET|%25|1|HAYIR|%22|EVET|%48|2|HAYIR|%27|EVET|%38|2|HAYIR|%16|EVET|
↳ %28|2|HAYIR|%16|EVET|%37|1|HAYIR|%22|EVET|%32|1|HAYIR|%22|EVET|%30|3|EVET|%22|EVET|%30|3|EVET|%22|EVET|%28|2|HAYIR|%16|EVET|%65|1|HAYIR|%38|E
↳ VET|%27|3|EVET|%27|EVET|%34
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 514 ve sonrası)

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514 513|2026-08-03 17:57:46|3|4/2|HAYIR|%43|%22|EVET|%21|%28|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%30|C•B|EVET|%60|%52|DONGU_TERS_YON|FRAGMENTARY_2|D
↳ ONGU>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%41|2|EVET|%26|EVET|%30|1|HAYIR|%26|EVET|%31|1|HAYIR|%21|EVET|%28|3|HAYIR|%26|EVET|%42|4|HAYIR|%
↳ 15|EVET|%31|4|HAYIR|%15|EVET|%34|4|HAYIR|%21|EVET|%30|1|HAYIR|%21|EVET|%35|2|EVET|%26|EVET|%28|2|EVET|%26|EVET|%26|4|HAYIR|%15|EVET|%49|1|HAY
↳ IR|%36|EVET|%27|2|EVET|%31|EVET|%28
515 514|2026-08-03 17:57:47|2|1/4|HAYIR|%43|%22|EVET|%21|%25|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%28|T•B|EVET|%60|%53|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%30|EVET|%28|3|HAYIR|%25|EVET|%27|1|HAYIR|%20|EVET|%34|2|HAYIR|%25|EVET|%27|1|HAYIR
↳ |%15|EVET|%47|1|HAYIR|%15|EVET|%59|4|EVET|%20|EVET|%31|4|EVET|%20|EVET|%37|3|HAYIR|%30|EVET|%27|1|HAYIR|%30|EVET|%31|2|HAYIR|%15|EVET|%35|1|H
↳ AYIR|%35|EVET|%26|4|EVET|%35|EVET|%31
516 515|2026-08-03 17:57:48|4|3/1|HAYIR|%43|%22|HAYIR|%21|%56|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%38|T•K|EVET|%60|%58|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DONGU_TERS>DONGU_TERS>DONGU_TERS||HAYIR|%71|1|HAYIR|%28|EVET|%38|1|HAYIR|%23|EVET|%29|3|HAYIR|%19|EVET|%42|1|HAYIR|%23|EVET|%47|3|HAYIR|%14|
↳ EVET|%29|3|HAYIR|%14|EVET|%35|3|HAYIR|%23|EVET|%31|1|HAYIR|%23|EVET|%33|3|HAYIR|%28|EVET|%31|1|HAYIR|%28|EVET|%31|1|HAYIR|%14|EVET|%62|1|HAYI
↳ R|%33|EVET|%26|1|HAYIR|%38|EVET|%32
517 516|2026-08-03 17:57:48|2|1/2|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%35|T•B|EVET|%60|%57|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%52|1|HAYIR|%27|EVET|%35|4|HAYIR|%22|EVET|%28|1|HAYIR|%18|EVET|%33|1|HAYIR|%22|EVET|%40|1
↳ |HAYIR|%13|EVET|%47|1|HAYIR|%13|EVET|%45|4|HAYIR|%22|EVET|%32|4|HAYIR|%22|EVET|%28|3|EVET|%27|EVET|%27|1|HAYIR|%27|EVET|%31|4|HAYIR|%13|EVET|
↳ %39|1|HAYIR|%31|EVET|%26|1|HAYIR|%36|EVET|%26
518 517|2026-08-03 17:57:53|3|1/2|EVET|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%42|T•K|EVET|%60|%52|DONGU_TERS_YON|FRAGMENTARY_2|B
↳ LOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%44|1|EVET|%26|EVET|%42|1|EVET|%21|EVET|%30|1|EVET|%17|EVET|%45|4|HAYIR|%21|EVET|%33|2|HAYIR
↳ |%13|EVET|%41|1|EVET|%13|EVET|%48|2|HAYIR|%21|EVET|%30|2|HAYIR|%21|EVET|%30|2|HAYIR|%30|EVET|%28|1|EVET|%26|EVET|%32|1|EVET|%13|EVET|%97|3|HA
↳ YIR|%30|EVET|%26|1|EVET|%34|EVET|%31
519 518|2026-08-03 17:57:53|1|1/2|HAYIR|%43|%22|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%30|T•B|EVET|%60|%51|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%29|EVET|%30|3|HAYIR|%25|EVET|%27|1|HAYIR|%20|EVET|%41|4|EVET|%20|EVET|%32|1|HAYIR|%12|EVET
↳ |%35|1|HAYIR|%16|EVET|%37|4|EVET|%20|EVET|%31|4|EVET|%20|EVET|%37|1|HAYIR|%29|EVET|%27|1|HAYIR|%29|EVET|%28|2|HAYIR|%16|EVET|%64|3|HAYIR|%29|
↳ EVET|%26|2|HAYIR|%37|EVET|%33
520 519|2026-08-03 17:57:54|4|3/4|HAYIR|%43|%22|HAYIR|%21|%53|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%36|C•K|EVET|%60|%52|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI||HAYIR|%73|3|HAYIR|%28|EVET|%36|1|HAYIR|%24|EVET|%31|3|HAYIR|%20|EVET|%60|4|HAYIR|%24|EVET|%35|3|HAYIR|%12|EVET|%42|3|HAYIR|%16|EVE
↳ T|%48|3|HAYIR|%24|EVET|%31|1|HAYIR|%24|EVET|%36|3|HAYIR|%28|EVET|%31|3|HAYIR|%28|EVET|%35|3|HAYIR|%16|EVET|%52|3|HAYIR|%28|EVET|%26|3|HAYIR|%
↳ 36|EVET|%29
521 520|2026-08-03 17:57:57|2|3/4|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%30|T•B|EVET|%60|%52|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%61|2|HAYIR|%26|EVET|%30|3|HAYIR|%23|EVET|%28|4|HAYIR|%19|EVET|%35|1|EVET|%23|EVET|%35|2|HAYIR|
↳ %11|EVET|%41|2|HAYIR|%15|EVET|%45|4|HAYIR|%23|EVET|%31|3|HAYIR|%23|EVET|%30|3|HAYIR|%26|EVET|%27|2|HAYIR|%26|EVET|%27|1|EVET|%15|EVET|%56|3|H
↳ AYIR|%26|EVET|%26|3|HAYIR|%34|EVET|%25
522 521|2026-08-03 17:57:58|1|1/2|HAYIR|%43|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%44|C•K|HAYIR|%60|%53|TEPE_YON|FRAGMENTARY_2|VADI
↳ >DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%57|1|HAYIR|%25|EVET|%44|1|HAYIR|%22|EVET|%31|1|HAYIR|%18|EVET|%46|3|EVET|%25|EVET|%31|1|HAYIR|%11|E
↳ VET|%35|1|HAYIR|%14|EVET|%51|4|HAYIR|%22|EVET|%33|4|HAYIR|%22|EVET|%42|1|HAYIR|%25|EVET|%27|1|HAYIR|%25|EVET|%33|1|HAYIR|%18|EVET|%91|3|EVET|
↳ %25|EVET|%26|1|HAYIR|%33|EVET|%38
523 522|2026-08-03 17:57:59|3|2/4|HAYIR|%43|%21|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%44|C•B|EVET|%60|%54|DONGU_YON|FRAGMENTARY_2|DONG
↳ U_TERS>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%42|4|HAYIR|%25|EVET|%44|3|EVET|%21|EVET|%26|4|HAYIR|%17|EVET|%44|4|HAYIR|%28|EVET|%33|4|HAYI
↳ R|%10|EVET|%43|4|HAYIR|%14|EVET|%55|2|HAYIR|%21|EVET|%29|1|HAYIR|%21|EVET|%31|2|HAYIR|%25|EVET|%28|4|HAYIR|%25|EVET|%35|2|HAYIR|%17|EVET|%82|
↳ 3|EVET|%28|EVET|%26|4|HAYIR|%32|EVET|%32
524 523|2026-08-03 17:58:00|3|1/2|HAYIR|%43|%21|EVET|%21|%50|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%35|C•K|EVET|%60|%54|TEPE_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>DONGU_TERS>TEPE||HAYIR|%67|2|EVET|%24|EVET|%35|1|HAYIR|%24|EVET|%29|1|HAYIR|%17|EVET|%44|1|HAYIR|%27|EVET|%29|3|HAYIR|%10|EVET|%43|2|EVET
↳ |%13|EVET|%40|1|HAYIR|%20|EVET|%37|1|HAYIR|%20|EVET|%40|2|EVET|%24|EVET|%28|1|HAYIR|%24|EVET|%31|2|EVET|%17|EVET|%80|1|HAYIR|%31|EVET|%26|2|E
↳ VET|%31|EVET|%31
525 524|2026-08-03 17:58:04|2|4/3|HAYIR|%43|%21|EVET|%21|%29|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%41|T•B|EVET|%61|%55|VADI_YON|FRAGMENTARY_2|VADI>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%26|EVET|%41|3|EVET|%23|EVET|%28|4|HAYIR|%16|EVET|%42|1|HAYIR|%26|EVET|%36|3|EVET|%10|EVET
↳ |%30|4|HAYIR|%16|EVET|%39|4|HAYIR|%20|EVET|%30|3|EVET|%20|EVET|%33|3|EVET|%26|EVET|%27|4|HAYIR|%23|EVET|%31|4|HAYIR|%20|EVET|%91|1|HAYIR|%30|
↳ EVET|%26|4|HAYIR|%33|EVET|%33
526 525|2026-08-03 17:58:05|3|1/2|HAYIR|%43|%21|EVET|%21|%30|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%35|C•K|EVET|%61|%55|TEPE_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_2>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%48|4|HAYIR|%25|EVET|%35|1|HAYIR|%25|EVET|%30|4|HAYIR|%16|EVET|%44|4|HAYIR|%25|EVET|%44|4|H
↳ AYIR|%12|EVET|%42|4|HAYIR|%16|EVET|%55|2|EVET|%19|EVET|%29|1|HAYIR|%22|EVET|%31|2|EVET|%29|EVET|%28|4|HAYIR|%22|EVET|%35|2|EVET|%19|EVET|%58|
↳ 1|HAYIR|%29|EVET|%26|1|HAYIR|%32|EVET|%32
527 526|2026-08-03 17:58:05|2|4/3|EVET|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%41|T•B|EVET|%61|%55|VADI_YON|FRAGMENTARY_2|VADI>TE
↳ PE>VADI|PATTERN_BREAK:0,59|EVET|%49|4|EVET|%25|EVET|%41|3|HAYIR|%25|EVET|%28|1|HAYIR|%15|EVET|%36|4|EVET|%25|EVET|%32|4|EVET|%12|EVET|%29|4|E
↳ VET|%15|EVET|%46|4|EVET|%21|EVET|%30|3|HAYIR|%21|EVET|%29|3|HAYIR|%31|EVET|%28|4|EVET|%21|EVET|%31|4|EVET|%21|EVET|%81|1|HAYIR|%28|EVET|%26|4
↳ |EVET|%31|EVET|%32
528 527|2026-08-03 17:58:06|4|1/3|HAYIR|%43|%21|EVET|%21|%40|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%40|T•K|EVET|%61|%57|VADI_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>VADI|PATTERN_BREAK:0,59|EVET|%60|1|HAYIR|%27|EVET|%40|1|HAYIR|%24|EVET|%31|1|HAYIR|%15|EVET|%35|1|HAYIR|%27|EVET|%53|3|EVET|%15|EVET|%43|
↳ 3|EVET|%18|EVET|%39|3|EVET|%24|EVET|%30|1|HAYIR|%21|EVET|%32|3|EVET|%30|EVET|%30|1|HAYIR|%24|EVET|%33|1|HAYIR|%24|EVET|%59|1|HAYIR|%27|EVET|%
↳ 26|1|HAYIR|%33|EVET|%31
529 528|2026-08-03 17:58:10|3|2/4|HAYIR|%43|%21|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%44|T•K|EVET|%61|%51|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%57|2|HAYIR|%26|EVET|%44|4|HAYIR|%23|EVET|%28|2|HAYIR|%14|EVET|%49|3|HAYIR|%26|EVET|%43|4|HAYIR|%17|E
↳ VET|%30|2|HAYIR|%20|EVET|%50|2|HAYIR|%26|EVET|%30|2|HAYIR|%20|EVET|%34|2|HAYIR|%32|EVET|%28|2|HAYIR|%23|EVET|%33|2|HAYIR|%23|EVET|%69|1|EVET|
↳ %26|EVET|%26|2|HAYIR|%32|EVET|%30
530 529|2026-08-03 17:58:11|1|1/2|HAYIR|%43|%21|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|T•B|EVET|%61|%56|DONGU_YON|FRAGMENTARY_2|DONG
↳ U>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%25|EVET|%31|1|HAYIR|%22|EVET|%29|4|EVET|%14|EVET|%37|3|HAYIR|%25|EVET|%36|2|HAYIR|%17|EVET|
↳ %41|2|HAYIR|%20|EVET|%39|4|EVET|%25|EVET|%32|4|EVET|%20|EVET|%37|1|HAYIR|%31|EVET|%27|2|HAYIR|%22|EVET|%28|2|HAYIR|%22|EVET|%46|1|HAYIR|%28|E
↳ VET|%26|2|HAYIR|%31|EVET|%32
531 530|2026-08-03 17:58:12|4|3/4|EVET|%43|%22|HAYIR|%21|%55|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%26|T•K|EVET|%61|%54|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>DONGU||HAYIR|%78|1|HAYIR|%25|EVET|%26|3|EVET|%22|EVET|%27|1|HAYIR|%16|EVET|%34|4|HAYIR|%25|EVET|%33|4|HAYIR|%16|EVET|%35|4|HAYIR|%19|EV
↳ ET|%41|3|EVET|%27|EVET|%32|3|EVET|%22|EVET|%34|3|EVET|%30|EVET|%31|3|EVET|%22|EVET|%27|3|EVET|%22|EVET|%49|3|EVET|%27|EVET|%26|3|EVET|%30|EVE
↳ T|%29
532 531|2026-08-03 17:58:13|3|2/4|EVET|%43|%22|HAYIR|%21|%38|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%37|T•B|HAYIR|%61|%51|DONGU_YON|FRAGMENTARY_2|VADI>
↳ TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%57|2|EVET|%24|EVET|%37|1|HAYIR|%24|EVET|%29|4|HAYIR|%16|EVET|%41|3|HAYIR|%24|EVET|%42|2|EVET|%16|EVET|%33
↳ |2|EVET|%18|EVET|%49|2|EVET|%29|EVET|%29|1|HAYIR|%24|EVET|%32|2|EVET|%32|EVET|%28|2|EVET|%24|EVET|%32|2|EVET|%24|EVET|%60|3|HAYIR|%29|EVET|%2
↳ 6|2|EVET|%32|EVET|%29
533 532|2026-08-03 17:58:15|2|4/3|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%31|C•B|EVET|%61|%52|DONGU_YON|FRAGMENTARY_2|DONG
↳ U>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%54|4|HAYIR|%26|EVET|%31|3|HAYIR|%23|EVET|%30|2|EVET|%15|EVET|%35|2|EVET|%23|EVET|%29|2|EVET|%18|EVET|%4
↳ 2|2|EVET|%21|EVET|%54|4|HAYIR|%31|EVET|%31|4|HAYIR|%23|EVET|%32|3|HAYIR|%34|EVET|%28|2|EVET|%26|EVET|%29|2|EVET|%26|EVET|%30|3|HAYIR|%28|EVET
↳ |%26|4|HAYIR|%34|EVET|%33
534 533|2026-08-03 17:58:15|2|1/3|HAYIR|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%38|T•K|EVET|%61|%58|TEPE_YON|FRAGMENTARY_2|DONGU
↳ _TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%38|1|HAYIR|%25|EVET|%38|2|EVET|%23|EVET|%27|1|HAYIR|%17|EVET|%42|3|HAYIR|%25|EVET|%31|1|HAYIR|%20|EV
↳ ET|%32|1|HAYIR|%23|EVET|%44|1|HAYIR|%30|EVET|%32|3|HAYIR|%23|EVET|%32|3|HAYIR|%33|EVET|%27|1|HAYIR|%28|EVET|%32|1|HAYIR|%28|EVET|%58|3|HAYIR|
↳ %28|EVET|%26|3|HAYIR|%33|EVET|%30
535 534|2026-08-03 17:58:16|2|3/4|HAYIR|%43|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%48|T•B|HAYIR|%61|%60|BLOK_TERS_TEKRAR|FRAGMENTAR
↳ Y_2|DONGU_TERS>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%70|3|HAYIR|%25|EVET|%48|3|HAYIR|%25|EVET|%28|3|HAYIR|%17|EVET|%51|3|
↳ HAYIR|%25|EVET|%48|3|HAYIR|%20|EVET|%43|3|HAYIR|%22|EVET|%69|3|HAYIR|%30|EVET|%46|3|HAYIR|%22|EVET|%37|3|HAYIR|%32|EVET|%27|3|HAYIR|%27|EVET|
↳ %45|3|HAYIR|%27|EVET|%89|3|HAYIR|%27|EVET|%26|3|HAYIR|%32|EVET|%29
536 535|2026-08-03 17:58:17|2|3/1|HAYIR|%43|%22|EVET|%21|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%41|T•B|EVET|%61|%60|BLOK_TERS_TEKRAR|FRAGMENTARY_
↳ 2|VADI>VADI>BLOK_TERS|PATTERN_BREAK:0,59|EVET|%46|3|HAYIR|%24|EVET|%41|1|EVET|%24|EVET|%32|3|HAYIR|%17|EVET|%43|3|HAYIR|%24|EVET|%47|3|HAYIR|
↳ %19|EVET|%33|3|HAYIR|%21|EVET|%45|4|HAYIR|%29|EVET|%30|3|HAYIR|%21|EVET|%33|3|HAYIR|%31|EVET|%27|3|HAYIR|%26|EVET|%36|1|EVET|%26|EVET|%25|3|H
↳ AYIR|%26|EVET|%26|3|HAYIR|%31|EVET|%28
537 536|2026-08-03 17:58:18|1|1/3|EVET|%43|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%37|T•K|EVET|%61|%54|TEPE_YON|FRAGMENTARY_2|DONGU>T
↳ EPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%40|1|EVET|%23|EVET|%37|3|HAYIR|%26|EVET|%28|3|HAYIR|%16|EVET|%43|3|HAYIR|%23|EVET|%45|3|H
↳ AYIR|%19|EVET|%43|1|EVET|%21|EVET|%34|4|HAYIR|%28|EVET|%33|2|HAYIR|%21|EVET|%29|1|EVET|%30|EVET|%27|3|HAYIR|%26|EVET|%32|1|EVET|%28|EVET|%62|
↳ 1|EVET|%26|EVET|%26|1|EVET|%30|EVET|%36
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 538 ve sonrası)

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538 537|2026-08-03 17:58:19|1|3/1|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%29|C•B|EVET|%61|%53|BLOK_TERS_TEKRAR|FRAGMENTARY_
↳ 2|TEPE>DONGU>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%36|4|EVET|%25|EVET|%29|1|HAYIR|%25|EVET|%30|4|EVET|%16|EVET|%37|3|HAYIR|%23
↳ |EVET|%30|2|HAYIR|%18|EVET|%27|3|HAYIR|%23|EVET|%36|4|EVET|%27|EVET|%30|1|HAYIR|%20|EVET|%33|1|HAYIR|%32|EVET|%27|3|HAYIR|%25|EVET|%27|3|HAYI
↳ R|%30|EVET|%76|1|HAYIR|%27|EVET|%26|3|HAYIR|%32|EVET|%31
539 538|2026-08-03 17:58:21|4|3/1|HAYIR|%43|%22|HAYIR|%21|%58|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%44|C•K|EVET|%61|%50|VADI_YON|FRAGMENTARY_2|VADI>
↳ DONGU>VADI|REGIME_SHIFT:0,50|EVET|%75|3|HAYIR|%27|EVET|%44|3|HAYIR|%25|EVET|%27|3|HAYIR|%18|EVET|%64|3|HAYIR|%22|EVET|%28|3|HAYIR|%18|EVET|%4
↳ 2|3|HAYIR|%22|EVET|%70|3|HAYIR|%29|EVET|%33|3|HAYIR|%20|EVET|%47|3|HAYIR|%31|EVET|%31|3|HAYIR|%25|EVET|%44|3|HAYIR|%29|EVET|%91|1|HAYIR|%27|E
↳ VET|%26|3|HAYIR|%31|EVET|%31
540 539|2026-08-03 17:58:22|2|1/2|HAYIR|%43|%22|HAYIR|%21|%37|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%32|T•K|EVET|%61|%50|TEPE_YON|FRAGMENTARY_2|VADI>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%55|1|HAYIR|%26|EVET|%32|1|HAYIR|%24|EVET|%28|1|HAYIR|%17|EVET|%45|1|HAYIR|%22|EVET|%37|2|HAYIR|%17|EVET|%
↳ 44|2|HAYIR|%22|EVET|%39|4|HAYIR|%28|EVET|%30|1|HAYIR|%20|EVET|%31|3|EVET|%31|EVET|%27|1|HAYIR|%24|EVET|%30|1|HAYIR|%28|EVET|%71|1|HAYIR|%26|E
↳ VET|%26|1|HAYIR|%31|EVET|%27
541 540|2026-08-03 17:58:27|3|1/2|HAYIR|%43|%21|EVET|%21|%32|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%48|T•K|EVET|%61|%52|VADI_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU>VADI|PATTERN_BREAK:0,59|EVET|%35|1|HAYIR|%26|EVET|%48|3|HAYIR|%23|EVET|%27|1|HAYIR|%17|EVET|%66|4|HAYIR|%21|EVET|%34|1|HAYIR|%17|EVET|%4
↳ 5|1|HAYIR|%21|EVET|%63|2|EVET|%28|EVET|%31|2|EVET|%19|EVET|%40|2|EVET|%32|EVET|%29|1|HAYIR|%23|EVET|%39|1|HAYIR|%28|EVET|%98|1|HAYIR|%26|EVET
↳ |%26|1|HAYIR|%30|EVET|%31
542 541|2026-08-03 17:58:28|2|4/3|EVET|%43|%22|HAYIR|%21|%43|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%43|C•B|EVET|%61|%56|DONGU_TERS_YON|FRAGMENTARY_2|V
↳ ADI>TEPE>DONGU_TERS||HAYIR|%53|4|EVET|%25|EVET|%43|1|HAYIR|%23|EVET|%27|1|HAYIR|%17|EVET|%32|4|EVET|%21|EVET|%33|4|EVET|%17|EVET|%41|4|EVET|%
↳ 21|EVET|%51|4|EVET|%29|EVET|%29|3|HAYIR|%21|EVET|%26|3|HAYIR|%34|EVET|%27|4|EVET|%23|EVET|%34|4|EVET|%27|EVET|%86|1|HAYIR|%25|EVET|%26|4|EVET
↳ |%29|EVET|%32
543 542|2026-08-03 17:58:30|4|3/1|HAYIR|%43|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%36|T•K|HAYIR|%61|%62|VADI_YON|FRAGMENTARY_2|DONG
↳ U>BLOK_TERS>VADI|PATTERN_BREAK:0,59|EVET|%42|1|HAYIR|%27|EVET|%36|3|HAYIR|%22|EVET|%29|3|HAYIR|%16|EVET|%42|1|HAYIR|%22|EVET|%49|1|HAYIR|%18|
↳ EVET|%44|1|HAYIR|%22|EVET|%42|3|HAYIR|%31|EVET|%32|2|HAYIR|%20|EVET|%35|3|HAYIR|%33|EVET|%31|1|HAYIR|%25|EVET|%33|1|HAYIR|%29|EVET|%52|1|HAYI
↳ R|%25|EVET|%26|1|HAYIR|%31|EVET|%30
544 543|2026-08-03 17:58:31|4|3/1|HAYIR|%43|%22|EVET|%21|%26|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%33|T•K|EVET|%61|%61|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%28|2|HAYIR|%26|EVET|%33|2|HAYIR|%22|EVET|%29|3|HAYIR|%16|EVET|%45|1|EVET|%22|EVET|%48|2|HAYIR|%18|EVE
↳ T|%44|2|HAYIR|%22|EVET|%56|1|EVET|%30|EVET|%32|3|HAYIR|%20|EVET|%32|3|HAYIR|%32|EVET|%31|2|HAYIR|%24|EVET|%31|1|EVET|%28|EVET|%63|3|HAYIR|%24
↳ |EVET|%26|3|HAYIR|%30|EVET|%35
545 544|2026-08-03 17:58:32|1|4/3|EVET|%44|%22|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%37|T•B|EVET|%62|%58|TEPE_YON|FRAGMENTARY_2|DONGU>T
↳ EPE>TEPE||HAYIR|%45|4|EVET|%26|EVET|%37|3|HAYIR|%22|EVET|%26|4|EVET|%16|EVET|%47|3|HAYIR|%24|EVET|%34|1|HAYIR|%18|EVET|%28|4|EVET|%22|EVET|%3
↳ 1|4|EVET|%32|EVET|%33|4|EVET|%20|EVET|%39|1|HAYIR|%32|EVET|%27|4|EVET|%24|EVET|%31|3|HAYIR|%30|EVET|%48|3|HAYIR|%24|EVET|%26|1|HAYIR|%30|EVET
↳ |%31
546 545|2026-08-03 17:58:34|4|3/4|HAYIR|%44|%22|EVET|%21|%26|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%26|%38|C•B|EVET|%62|%56|VADI_YON|FRAGMENTARY_2|TEPE>BL
↳ OK_TERS>VADI|PATTERN_BREAK:0,59|EVET|%38|4|EVET|%27|EVET|%38|1|HAYIR|%21|EVET|%27|4|EVET|%17|EVET|%65|4|EVET|%23|EVET|%35|4|EVET|%17|EVET|%43
↳ |4|EVET|%23|EVET|%69|3|HAYIR|%33|EVET|%32|1|HAYIR|%21|EVET|%26|3|HAYIR|%31|EVET|%31|4|EVET|%25|EVET|%36|4|EVET|%29|EVET|%74|3|HAYIR|%23|EVET|
↳ %26|3|HAYIR|%29|EVET|%30
547 546|2026-08-03 17:58:37|4|3/1|HAYIR|%44|%22|HAYIR|%21|%0|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%0|T•K|EVET|%62|%0|VADI_YON|FRAGMENTARY_2|VADI>VAD
↳ I>VADI|PATTERN_BREAK:0,59|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|E
↳ VET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0
548 547|2026-08-05 23:12:24|2|1/4|HAYIR|%43|%22|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%32|T•K|EVET|%62|%57|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%48|1|HAYIR|%0|EVET|%35|4|HAYIR|%0|EVET|%44|4
↳ |HAYIR|%0|EVET|%35|4|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%99|1|HAYIR|%0|EVET|%26|1|
↳ HAYIR|%0|EVET|%27
549 548|2026-08-05 23:12:25|2|1/3|HAYIR|%44|%22|EVET|%22|%42|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%35|T•K|EVET|%62|%62|TEPE_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>TEPE|PATTERN_BREAK:0,59|EVET|%67|1|HAYIR|%0|EVET|%35|4|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%43|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%44|1|HA
↳ YIR|%0|EVET|%37|1|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%27|3|EVET|%0|EVET|%27|1|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%88|1|HAYIR|%0|EVET|%26|1|HAYI
↳ R|%0|EVET|%29
550 549|2026-08-05 23:12:28|3|4/2|HAYIR|%44|%22|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%31|T•B|HAYIR|%62|%54|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%28|4|HAYIR|%0|EVET|%45|4|HAYIR|%0|EVET|%36|4|HAYIR|%0|E
↳ VET|%35|4|HAYIR|%0|EVET|%41|2|EVET|%0|EVET|%32|2|EVET|%0|EVET|%44|2|EVET|%0|EVET|%29|4|HAYIR|%0|EVET|%31|4|HAYIR|%0|EVET|%82|1|HAYIR|%0|EVET|
↳ %26|2|EVET|%0|EVET|%31
551 550|2026-08-05 23:12:30|2|4/3|HAYIR|%44|%21|EVET|%22|%59|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%48|C•B|EVET|%62|%57|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>VADI>VADI||HAYIR|%65|4|HAYIR|%0|EVET|%48|3|EVET|%0|EVET|%26|4|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%38|4|HAYIR|%0|EVET|%43|4|HAYIR|%0|EVET|%
↳ 55|4|HAYIR|%0|EVET|%31|4|HAYIR|%0|EVET|%32|3|EVET|%0|EVET|%27|4|HAYIR|%0|EVET|%37|4|HAYIR|%0|EVET|%98|4|HAYIR|%0|EVET|%27|4|HAYIR|%0|EVET|%32
552 551|2026-08-05 23:12:36|3|2/1|EVET|%44|%22|HAYIR|%22|%42|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%38|C•K|EVET|%62|%55|TEPE_YON|FRAGMENTARY_2|TEKRAR>
↳ TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%71|2|EVET|%0|EVET|%38|1|HAYIR|%20|EVET|%27|2|EVET|%0|EVET|%48|4|HAYIR|%0|EVET|%48|2|EVET|%0|EVET|%32|2|EVE
↳ T|%0|EVET|%42|2|EVET|%20|EVET|%33|2|EVET|%20|EVET|%48|2|EVET|%60|EVET|%29|2|EVET|%0|EVET|%36|2|EVET|%0|EVET|%90|4|HAYIR|%0|EVET|%27|2|EVET|%2
↳ 0|EVET|%31
553 552|2026-08-05 23:12:38|2|4/3|HAYIR|%44|%22|HAYIR|%22|%54|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%52|C•B|EVET|%62|%53|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>VADI||HAYIR|%76|4|HAYIR|%16|EVET|%52|3|HAYIR|%16|EVET|%27|4|HAYIR|%16|EVET|%35|4|HAYIR|%0|EVET|%38|4|HAYIR|%16|EVET|%43|4|HAYIR|%16
↳ |EVET|%60|4|HAYIR|%33|EVET|%30|3|HAYIR|%33|EVET|%30|3|HAYIR|%66|EVET|%27|4|HAYIR|%16|EVET|%37|4|HAYIR|%16|EVET|%97|4|HAYIR|%0|EVET|%27|4|HAYI
↳ R|%33|EVET|%31
554 553|2026-08-05 23:12:39|2|3/4|HAYIR|%44|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%27|T•B|HAYIR|%62|%55|VADI_YON|FRAGMENTARY_2|BLOK
↳ _TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%57|3|HAYIR|%14|EVET|%27|1|HAYIR|%14|EVET|%29|1|HAYIR|%14|EVET|%40|2|EVET|%0|EVET|%29|4|HAYIR|%14|EVE
↳ T|%42|4|HAYIR|%14|EVET|%35|3|HAYIR|%28|EVET|%32|2|EVET|%28|EVET|%29|3|HAYIR|%57|EVET|%27|4|HAYIR|%14|EVET|%27|1|HAYIR|%14|EVET|%62|4|HAYIR|%0
↳ |EVET|%26|3|HAYIR|%28|EVET|%30
555 554|2026-08-05 23:12:40|2|3/2|HAYIR|%44|%21|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%36|T•K|EVET|%62|%55|TEPE_YON|FRAGMENTARY_2|VADI>V
↳ ADI>TEPE|PATTERN_BREAK:0,59|EVET|%41|3|HAYIR|%12|EVET|%36|3|HAYIR|%12|EVET|%28|3|HAYIR|%12|EVET|%35|3|HAYIR|%12|EVET|%35|3|HAYIR|%12|EVET|%33
↳ |3|HAYIR|%12|EVET|%50|3|HAYIR|%25|EVET|%46|2|EVET|%37|EVET|%33|3|HAYIR|%50|EVET|%27|3|HAYIR|%12|EVET|%35|3|HAYIR|%12|EVET|%99|4|HAYIR|%0|EVET
↳ |%26|3|HAYIR|%25|EVET|%29
556 555|2026-08-05 23:12:42|2|2/1|HAYIR|%44|%21|EVET|%22|%35|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%45|T•K|EVET|%62|%60|DONGU_TERS_YON|FRAGMENTARY_2|T
↳ EPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%57|1|EVET|%11|EVET|%45|2|HAYIR|%11|EVET|%27|1|EVET|%11|EVET|%39|1|EVET|%11|EVET|%37|1|EVET|%11|
↳ EVET|%42|1|EVET|%11|EVET|%73|1|EVET|%22|EVET|%49|2|HAYIR|%44|EVET|%35|3|HAYIR|%44|EVET|%27|1|EVET|%11|EVET|%41|1|EVET|%11|EVET|%99|2|HAYIR|%0
↳ |EVET|%27|3|HAYIR|%22|EVET|%29
557 556|2026-08-05 23:12:44|1|2/4|HAYIR|%44|%21|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%62|T•K|EVET|%62|%55|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%47|1|HAYIR|%20|EVET|%62|3|EVET|%10|EVET|%27|1|HAYIR|%20|EVET|%49|3|EVET|%20|EVET|%45|1|HAYIR|%
↳ 20|EVET|%43|1|HAYIR|%20|EVET|%75|4|HAYIR|%30|EVET|%34|2|HAYIR|%40|EVET|%32|1|HAYIR|%40|EVET|%28|1|HAYIR|%20|EVET|%36|1|HAYIR|%20|EVET|%87|1|H
↳ AYIR|%0|EVET|%26|1|HAYIR|%20|EVET|%38
558 557|2026-08-05 23:12:47|3|2/4|EVET|%44|%22|HAYIR|%22|%42|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%31|C•K|EVET|%62|%55|TEPE_YON|FRAGMENTARY_2|DONGU_
↳ TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%61|3|HAYIR|%18|EVET|%31|2|EVET|%18|EVET|%29|3|HAYIR|%18|EVET|%32|4|HAYIR|%27|EVET|%35|3|HAYIR|%18|EVE
↳ T|%42|2|EVET|%18|EVET|%42|2|EVET|%27|EVET|%35|2|EVET|%36|EVET|%47|2|EVET|%36|EVET|%30|2|EVET|%18|EVET|%31|2|EVET|%18|EVET|%58|1|HAYIR|%0|EVET
↳ |%26|4|HAYIR|%18|EVET|%31
559 558|2026-08-05 23:12:48|2|3/2|HAYIR|%44|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%36|C•B|HAYIR|%62|%54|BLOK_TERS_TEKRAR|FRAGMENTAR
↳ Y_2|DONGU>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%40|2|HAYIR|%16|EVET|%36|2|HAYIR|%25|EVET|%27|2|HAYIR|%16|EVET|%32|2|HAYIR
↳ |%25|EVET|%36|2|HAYIR|%16|EVET|%35|2|HAYIR|%25|EVET|%44|4|HAYIR|%33|EVET|%30|2|HAYIR|%41|EVET|%30|3|HAYIR|%41|EVET|%27|2|HAYIR|%25|EVET|%31|3
↳ |HAYIR|%25|EVET|%79|1|EVET|%0|EVET|%26|4|HAYIR|%16|EVET|%31
560 559|2026-08-05 23:12:53|1|4/2|HAYIR|%44|%21|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|C•K|HAYIR|%62|%52|TEPE_YON|FRAGMENTARY_2|VADI
↳ >TEPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%15|EVET|%36|2|HAYIR|%23|EVET|%29|1|HAYIR|%15|EVET|%42|2|HAYIR|%23|EVET|%31|
↳ 4|HAYIR|%15|EVET|%41|1|HAYIR|%23|EVET|%37|4|HAYIR|%30|EVET|%33|4|HAYIR|%38|EVET|%39|1|HAYIR|%38|EVET|%28|4|HAYIR|%23|EVET|%27|2|HAYIR|%23|EVE
↳ T|%95|1|HAYIR|%7|EVET|%26|1|HAYIR|%15|EVET|%37
561 560|2026-08-05 23:12:55|3|2|HAYIR|%44|%21|HAYIR|%22|%66|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%31|C•B|EVET|%62|%54|DONGU_YON|FRAGMENTARY_2|TEPE>VA
↳ DI>DONGU||HAYIR|%84|4|EVET|%14|EVET|%31|3|HAYIR|%21|EVET|%28|2|HAYIR|%14|EVET|%34|4|EVET|%21|EVET|%36|2|HAYIR|%14|EVET|%34|2|HAYIR|%21|EVET|%
↳ 37|2|HAYIR|%28|EVET|%36|2|HAYIR|%35|EVET|%42|2|HAYIR|%35|EVET|%30|2|HAYIR|%21|EVET|%33|2|HAYIR|%21|EVET|%67|1|HAYIR|%7|EVET|%26|4|EVET|%14|EV
↳ ET|%31
562 561|2026-08-05 23:12:57|4|2/3|HAYIR|%44|%21|EVET|%22|%35|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%42|T•K|EVET|%62|%51|VADI_YON|FRAGMENTARY_2|VADI>VA
↳ DI>VADI|PATTERN_BREAK:0,59|EVET|%44|3|EVET|%20|EVET|%42|1|HAYIR|%20|EVET|%28|3|EVET|%13|EVET|%38|2|HAYIR|%26|EVET|%35|1|HAYIR|%13|EVET|%43|1|
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 562 ve sonrası)

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HAYIR|%20|EVET|%38|3|EVET|%26|EVET|%31|2|HAYIR|%33|EVET|%37|3|EVET|%33|EVET|%29|1|HAYIR|%20|EVET|%28|3|EVET|%20|EVET|%88|1|HAYIR|%6|EVET|%26|
3|EVET|%20|EVET|%35
562|2026-08-05 23:13:01|3|2/4|HAYIR|%44|%21|EVET|%22|%49|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|C•B|EVET|%62|%52|TEPE_YON|FRAGMENTARY_2|VADI>T
EPE>TEPE||HAYIR|%61|2|HAYIR|%25|EVET|%31|3|HAYIR|%18|EVET|%26|3|HAYIR|%18|EVET|%30|3|HAYIR|%25|EVET|%35|3|HAYIR|%12|EVET|%26|4|EVET|%18|EVET|
%29|2|HAYIR|%31|EVET|%35|2|HAYIR|%31|EVET|%36|2|HAYIR|%37|EVET|%30|2|HAYIR|%18|EVET|%28|4|EVET|%25|EVET|%38|1|HAYIR|%6|EVET|%26|2|HAYIR|%25|E
VET|%31
563|2026-08-05 23:13:03|4|3/2|HAYIR|%44|%21|HAYIR|%22|%40|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%48|C•K|EVET|%62|%52|ZIGZAK_KOM_SALINIMM|FRAGMENT
ARY_2|TEPE>DONGU_TERS>ZIGZAK_KOM|PATTERN_BREAK:0,59|EVET|%55|3|HAYIR|%23|EVET|%48|2|HAYIR|%17|EVET|%26|3|HAYIR|%17|EVET|%60|2|HAYIR|%23|EVET|
%44|2|HAYIR|%11|EVET|%34|3|HAYIR|%23|EVET|%42|3|HAYIR|%29|EVET|%33|2|HAYIR|%29|EVET|%31|3|HAYIR|%35|EVET|%30|3|HAYIR|%17|EVET|%35|3|HAYIR|%29
|EVET|%84|2|HAYIR|%5|EVET|%26|3|HAYIR|%23|EVET|%36
564|2026-08-05 23:13:04|4|3/1|HAYIR|%44|%21|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%34|T•K|EVET|%62|%56|VADI_YON|FRAGMENTARY_2|BLOK_
TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%22|EVET|%34|3|HAYIR|%16|EVET|%26|1|HAYIR|%16|EVET|%29|1|HAYIR|%22|EVET|%40|3|HAYIR|
%11|EVET|%42|3|HAYIR|%22|EVET|%36|1|HAYIR|%27|EVET|%31|1|HAYIR|%27|EVET|%30|3|HAYIR|%33|EVET|%30|3|HAYIR|%16|EVET|%30|4|HAYIR|%27|EVET|%43|4|
HAYIR|%5|EVET|%26|3|HAYIR|%22|EVET|%33
565|2026-08-05 23:13:07|2|1/4|EVET|%44|%21|HAYIR|%22|%57|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%36|T•K|EVET|%62|%54|VADI_YON|FRAGMENTARY_2|VADI>TE
PE>VADI||HAYIR|%58|1|EVET|%21|EVET|%36|2|HAYIR|%15|EVET|%27|1|EVET|%15|EVET|%38|1|EVET|%21|EVET|%42|1|EVET|%10|EVET|%42|1|EVET|%21|EVET|%52|4
|HAYIR|%26|EVET|%29|4|HAYIR|%26|EVET|%33|3|HAYIR|%31|EVET|%27|1|EVET|%15|EVET|%34|1|EVET|%26|EVET|%99|4|HAYIR|%5|EVET|%27|1|EVET|%21|EVET|%26
566|2026-08-05 23:13:10|1|1/4|EVET|%44|%22|HAYIR|%22|%33|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%41|T•K|EVET|%62|%54|TEPE_YON|FRAGMENTARY_2|TEPE>BL
OK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%46|1|EVET|%25|EVET|%41|4|HAYIR|%15|EVET|%36|1|EVET|%20|EVET|%42|3|HAYIR|%25|EVET|%34|4|HAYIR|%15|EVET|%
42|1|EVET|%25|EVET|%45|4|HAYIR|%25|EVET|%33|4|HAYIR|%25|EVET|%57|1|EVET|%30|EVET|%27|4|HAYIR|%20|EVET|%31|1|EVET|%30|EVET|%59|4|HAYIR|%5|EVET
|%27|1|EVET|%25|EVET|%37
567|2026-08-05 23:13:12|1|4/3|EVET|%44|%22|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%27|C•B|EVET|%62|%55|TEPE_YON|FRAGMENTARY_2|DONGU>
TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%32|2|HAYIR|%28|EVET|%27|2|HAYIR|%14|EVET|%28|4|EVET|%23|EVET|%29|1|HAYIR|%23|EVET|%28|2|HAYIR|%14|EVET|%33
|3|HAYIR|%28|EVET|%44|4|EVET|%23|EVET|%34|1|HAYIR|%23|EVET|%31|1|HAYIR|%33|EVET|%28|3|HAYIR|%19|EVET|%27|4|EVET|%33|EVET|%71|4|EVET|%4|EVET|%
27|3|HAYIR|%28|EVET|%31
568|2026-08-05 23:13:19|4|3|EVET|%44|%22|HAYIR|%22|%74|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%26|%32|C•K|HAYIR|%62|%58|VADI_YON|FRAGMENTARY_2|DONGU>DO
NGU>VADI||HAYIR|%88|3|EVET|%27|EVET|%32|3|EVET|%13|EVET|%26|3|EVET|%27|EVET|%37|4|HAYIR|%22|EVET|%30|3|EVET|%13|EVET|%29|3|EVET|%27|EVET|%46|
3|EVET|%27|EVET|%32|3|EVET|%22|EVET|%37|3|EVET|%31|EVET|%29|3|EVET|%18|EVET|%33|3|EVET|%36|EVET|%64|4|HAYIR|%9|EVET|%26|3|EVET|%27|EVET|%29
569|2026-08-05 23:13:22|3|2/1|HAYIR|%44|%22|HAYIR|%22|%41|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%35|C•K|EVET|%62|%53|TEPE_YON|FRAGMENTARY_2|TEPE>
VADI>TEPE|PATTERN_BREAK:0,59|EVET|%63|2|HAYIR|%30|EVET|%35|2|HAYIR|%17|EVET|%27|2|HAYIR|%30|EVET|%41|3|HAYIR|%21|EVET|%46|1|HAYIR|%17|EVET|%3
0|3|HAYIR|%30|EVET|%36|2|HAYIR|%30|EVET|%34|2|HAYIR|%26|EVET|%46|2|HAYIR|%34|EVET|%30|2|HAYIR|%21|EVET|%31|2|HAYIR|%39|EVET|%91|1|HAYIR|%8|EV
ET|%26|2|HAYIR|%30|EVET|%31
570|2026-08-05 23:13:26|4|3|HAYIR|%44|%22|HAYIR|%22|%81|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%51|C•B|EVET|%62|%52|VADI_YON|FRAGMENTARY_2|BLOK_TE
RS>TEPE>VADI||HAYIR|%85|3|HAYIR|%29|EVET|%51|2|EVET|%16|EVET|%27|3|HAYIR|%29|EVET|%50|2|EVET|%20|EVET|%32|3|HAYIR|%16|EVET|%42|3|HAYIR|%29|EV
ET|%59|3|HAYIR|%29|EVET|%33|2|EVET|%25|EVET|%39|3|HAYIR|%33|EVET|%30|3|HAYIR|%20|EVET|%40|3|HAYIR|%37|EVET|%84|1|HAYIR|%8|EVET|%25|3|HAYIR|%2
9|EVET|%36
571|2026-08-05 23:13:29|2|3/1|HAYIR|%44|%22|HAYIR|%22|%43|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%33|T•B|EVET|%63|%52|VADI_YON|FRAGMENTARY_2|TEKRA
R>ZIGZAK_KOM>VADI|PATTERN_BREAK:0,59|EVET|%57|3|HAYIR|%28|EVET|%33|2|HAYIR|%20|EVET|%40|3|HAYIR|%28|EVET|%40|1|HAYIR|%24|EVET|%33|1|HAYIR|%16
|EVET|%30|3|HAYIR|%28|EVET|%36|4|EVET|%28|EVET|%29|4|EVET|%28|EVET|%32|3|HAYIR|%32|EVET|%27|1|HAYIR|%20|EVET|%29|3|HAYIR|%36|EVET|%89|1|HAYIR
|%8|EVET|%25|1|HAYIR|%28|EVET|%27
572|2026-08-05 23:13:35|4|1/3|HAYIR|%44|%22|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%37|T•B|HAYIR|%62|%53|DONGU_TERS_YON|FRAGMENTARY_
2|BLOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%44|1|HAYIR|%26|EVET|%37|2|EVET|%19|EVET|%28|1|HAYIR|%26|EVET|%79|1|HAYIR|%23|EVET|%40|3|
HAYIR|%15|EVET|%41|1|HAYIR|%26|EVET|%32|3|HAYIR|%30|EVET|%32|2|EVET|%30|EVET|%36|3|HAYIR|%30|EVET|%30|1|HAYIR|%19|EVET|%34|1|HAYIR|%34|EVET|%
97|1|HAYIR|%7|EVET|%25|1|HAYIR|%26|EVET|%30
573|2026-08-05 23:13:40|2|3/4|HAYIR|%44|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%30|T•B|EVET|%62|%60|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%30|1|EVET|%25|EVET|%30|1|EVET|%22|EVET|%26|3|HAYIR|%25|EVET|%45|1|EVET|%22|EVET|%31|4|HAYIR|%14
|EVET|%44|4|HAYIR|%25|EVET|%29|4|HAYIR|%29|EVET|%30|4|HAYIR|%33|EVET|%33|3|HAYIR|%29|EVET|%27|3|HAYIR|%18|EVET|%27|3|HAYIR|%33|EVET|%66|1|EVE
T|%7|EVET|%25|1|EVET|%25|EVET|%27
574|2026-08-05 23:13:45|1|4/3|HAYIR|%44|%22|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%43|T•B|HAYIR|%62|%56|TEPE_YON|FRAGMENTARY_2|DONG
U>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%28|EVET|%43|3|HAYIR|%25|EVET|%26|1|HAYIR|%25|EVET|%49|3|HAYIR|%25|EVET|%31|3|HAYIR|%14|EVET|
%41|1|HAYIR|%25|EVET|%43|4|HAYIR|%28|EVET|%33|4|HAYIR|%32|EVET|%53|1|HAYIR|%28|EVET|%28|3|HAYIR|%17|EVET|%31|1|HAYIR|%32|EVET|%67|1|HAYIR|%10
|EVET|%25|1|HAYIR|%28|EVET|%37
575|2026-08-05 23:13:50|2|3/2|HAYIR|%44|%22|HAYIR|%22|%26|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%43|C•B|EVET|%62|%51|DONGU_YON|FRAGMENTARY_2|TEPE
>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%32|3|HAYIR|%27|EVET|%43|1|HAYIR|%24|EVET|%27|1|HAYIR|%24|EVET|%39|3|HAYIR|%24|EVET|%40|3|HAYIR|%13|EVET|
%32|3|HAYIR|%24|EVET|%52|4|EVET|%27|EVET|%30|4|EVET|%31|EVET|%31|3|HAYIR|%27|EVET|%26|3|HAYIR|%17|EVET|%33|3|HAYIR|%31|EVET|%99|1|HAYIR|%10|E
VET|%25|3|HAYIR|%27|EVET|%32
576|2026-08-05 23:14:01|4|3/2|HAYIR|%44|%22|EVET|%22|%27|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%38|T•K|EVET|%62|%55|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%26|EVET|%38|2|EVET|%23|EVET|%27|1|HAYIR|%23|EVET|%34|1|HAYIR|%23|EVET|%43|1|HAYIR|%
13|EVET|%42|1|HAYIR|%23|EVET|%49|3|HAYIR|%30|EVET|%31|2|EVET|%33|EVET|%42|3|HAYIR|%26|EVET|%29|1|HAYIR|%16|EVET|%30|4|HAYIR|%30|EVET|%45|2|EV
ET|%10|EVET|%27|1|HAYIR|%26|EVET|%29
577|2026-08-05 23:14:05|2|1/2|EVET|%44|%22|HAYIR|%22|%42|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%26|%34|T•K|EVET|%63|%54|DONGU_YON|FRAGMENTARY_2|VADI>T
EPE>DONGU||HAYIR|%51|1|EVET|%25|EVET|%34|1|EVET|%25|EVET|%27|3|HAYIR|%22|EVET|%30|1|EVET|%22|EVET|%33|2|HAYIR|%12|EVET|%34|4|HAYIR|%22|EVET|%
31|4|HAYIR|%29|EVET|%31|4|HAYIR|%35|EVET|%31|4|HAYIR|%25|EVET|%26|1|EVET|%16|EVET|%26|3|HAYIR|%29|EVET|%59|4|HAYIR|%12|EVET|%27|1|EVET|%25|EV
ET|%28
578|2026-08-05 23:14:18|1|3/2|HAYIR|%44|%22|EVET|%22|%37|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%39|T•B|HAYIR|%62|%52|DONGU_TERS_YON|FRAGMENTARY_2
|TEPE>VADI>DONGU_TERS||HAYIR|%46|1|HAYIR|%28|EVET|%39|2|EVET|%28|EVET|%27|2|EVET|%21|EVET|%38|4|HAYIR|%25|EVET|%34|3|HAYIR|%12|EVET|%40|3|HAY
IR|%21|EVET|%58|4|HAYIR|%28|EVET|%33|4|HAYIR|%34|EVET|%47|1|HAYIR|%25|EVET|%28|3|HAYIR|%18|EVET|%28|1|HAYIR|%28|EVET|%67|4|HAYIR|%12|EVET|%27
|1|HAYIR|%28|EVET|%37
579|2026-08-05 23:15:24|2|1/2|HAYIR|%44|%22|HAYIR|%22|%45|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%38|C•B|EVET|%63|%61|DONGU_TERS_YON|FRAGMENTARY_2|
DONGU>VADI>DONGU_TERS||HAYIR|%67|3|EVET|%27|EVET|%38|1|HAYIR|%30|EVET|%29|4|HAYIR|%24|EVET|%46|3|EVET|%24|EVET|%34|2|HAYIR|%12|EVET|%29|3|EVE
T|%21|EVET|%47|4|HAYIR|%27|EVET|%30|2|HAYIR|%33|EVET|%29|4|HAYIR|%24|EVET|%26|4|HAYIR|%18|EVET|%28|3|EVET|%27|EVET|%99|4|HAYIR|%12|EVET|%27|3
|EVET|%27|EVET|%31
580|2026-08-05 23:16:28|3|2/4|HAYIR|%44|%22|HAYIR|%22|%40|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%40|C•K|EVET|%63|%58|DONGU_TERS_YON|FRAGMENTARY_2
|VADI>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%71|2|HAYIR|%29|EVET|%40|2|HAYIR|%29|EVET|%30|2|HAYIR|%23|EVET|%43|3|HAYIR|%26|EVET|%32|1
|EVET|%11|EVET|%30|1|EVET|%23|EVET|%42|2|HAYIR|%26|EVET|%34|2|HAYIR|%32|EVET|%51|2|HAYIR|%23|EVET|%29|2|HAYIR|%17|EVET|%35|2|HAYIR|%29|EVET|%
74|2|HAYIR|%11|EVET|%27|2|HAYIR|%29|EVET|%32
581|2026-08-05 23:17:37|1|2/1|EVET|%44|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%40|C•K|EVET|%63|%57|DONGU_TERS_YON|FRAGMENTARY_2|T
EPE>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%40|2|EVET|%28|EVET|%40|1|HAYIR|%28|EVET|%26|2|EVET|%22|EVET|%55|3|HAYIR|%25|EVET|%35|2|EVE
T|%14|EVET|%47|2|EVET|%25|EVET|%61|4|HAYIR|%25|EVET|%31|4|HAYIR|%31|EVET|%39|1|HAYIR|%22|EVET|%27|2|EVET|%17|EVET|%33|1|HAYIR|%28|EVET|%56|4|
HAYIR|%11|EVET|%27|2|EVET|%28|EVET|%31
582|2026-08-05 23:18:37|2|4/3|HAYIR|%44|%22|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%47|C•K|EVET|%63|%52|TEPE_YON|FRAGMENTARY_2|BLOK_
TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%29|4|HAYIR|%30|EVET|%47|2|EVET|%27|EVET|%31|4|HAYIR|%25|EVET|%76|2|EVET|%25|EVET|%31|4|HAYIR|%16|EVET
|%42|4|HAYIR|%27|EVET|%64|4|HAYIR|%25|EVET|%29|2|EVET|%30|EVET|%33|3|HAYIR|%22|EVET|%26|4|HAYIR|%19|EVET|%41|4|HAYIR|%27|EVET|%73|1|HAYIR|%11
|EVET|%25|3|HAYIR|%30|EVET|%32
583|2026-08-05 23:19:47|2|1/3|HAYIR|%44|%22|EVET|%22|%35|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%26|%36|T•B|EVET|%63|%55|VADI_YON|FRAGMENTARY_2|BLOK_TE
RS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%61|3|EVET|%29|EVET|%36|1|HAYIR|%29|EVET|%27|3|EVET|%24|EVET|%42|2|HAYIR|%27|EVET|%33|3|EVET|%16|EVET|%
40|3|EVET|%27|EVET|%52|3|EVET|%24|EVET|%30|1|HAYIR|%32|EVET|%34|3|EVET|%21|EVET|%26|3|EVET|%18|EVET|%35|3|EVET|%27|EVET|%54|2|HAYIR|%10|EVET|
%25|1|HAYIR|%29|EVET|%29
584|2026-08-05 23:20:52|3|2/4|EVET|%44|%22|HAYIR|%22|%40|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%37|C•K|EVET|%63|%57|VADI_YON|FRAGMENTARY_2|VADI>DO
NGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%66|2|EVET|%31|EVET|%37|2|EVET|%28|EVET|%30|4|HAYIR|%26|EVET|%46|2|EVET|%26|EVET|%34|2|EVET|%18|EVET|%4
8|2|EVET|%28|EVET|%44|2|EVET|%26|EVET|%34|2|EVET|%31|EVET|%54|2|EVET|%23|EVET|%29|2|EVET|%21|EVET|%37|4|HAYIR|%28|EVET|%82|2|EVET|%10|EVET|%2
6|2|EVET|%28|EVET|%32
585|2026-08-05 23:21:55|2|4/2|HAYIR|%44|%22|HAYIR|%22|%35|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%44|C•K|HAYIR|%63|%63|DONGU_YON|FRAGMENTARY_2|TEP
E>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%46|4|HAYIR|%33|EVET|%44|1|HAYIR|%30|EVET|%27|3|EVET|%25|EVET|%29|2|HAYIR|%28|EVET|%37|4|HAYIR|%20|EVET
|%42|4|HAYIR|%30|EVET|%58|4|HAYIR|%28|EVET|%29|2|HAYIR|%33|EVET|%33|3|EVET|%25|EVET|%27|4|HAYIR|%23|EVET|%35|4|HAYIR|%28|EVET|%96|2|HAYIR|%12
|EVET|%25|4|HAYIR|%30|EVET|%30
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 587 ve sonrası)

```
587 586|2026-08-05 23:23:01|3|2/1|HAYIR|%44|%22|HAYIR|%22|%46|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%53|C•K|HAYIR|%63|%56|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%76|2|HAYIR|%32|EVET|%53|2|HAYIR|%30|EVET|%30|2|HAYIR|%27|EVET|%45|2|HAYIR|%27|EVET|%42|2|HAYIR|%2
↳ 0|EVET|%48|2|HAYIR|%30|EVET|%70|2|HAYIR|%27|EVET|%34|2|HAYIR|%32|EVET|%57|2|HAYIR|%27|EVET|%30|2|HAYIR|%22|EVET|%47|2|HAYIR|%27|EVET|%92|2|HA
↳ YIR|%12|EVET|%25|2|HAYIR|%30|EVET|%33
588 587|2026-08-05 23:24:15|3|1/2|HAYIR|%44|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%38|C•K|EVET|%63|%56|VADI_YON|FRAGMENTARY_2|DONGU
↳ _TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%54|2|HAYIR|%31|EVET|%38|2|HAYIR|%29|EVET|%27|1|HAYIR|%26|EVET|%52|4|EVET|%26|EVET|%34|1|HAYIR|
↳ %19|EVET|%29|1|HAYIR|%29|EVET|%39|2|HAYIR|%26|EVET|%37|2|HAYIR|%31|EVET|%43|2|HAYIR|%26|EVET|%30|1|HAYIR|%21|EVET|%32|1|HAYIR|%26|EVET|%79|2|
↳ HAYIR|%12|EVET|%26|2|HAYIR|%29|EVET|%33
589 588|2026-08-05 23:25:29|4|2/3|HAYIR|%44|%22|HAYIR|%22|%0|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%0|C•K|EVET|%63|%0|DONGU_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%
↳ 0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYI
↳ R|%0|EVET|%0
590 589|2026-08-17 18:36:54|4|1/2|HAYIR|%44|%22|HAYIR|%22|%29|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%31|T•K|HAYIR|%63|%55|DONGU_YON|FRAGMENTARY_2|DON
↳ GU>DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%36|1|HAYIR|%0|EVET|%37|4|EVET|%0|EVE
↳ T|%30|3|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%89|2|HAYIR|%0|EVET
↳ |%29|3|HAYIR|%0|EVET|%32
591 590|2026-08-17 18:36:55|4|1/2|HAYIR|%43|%21|HAYIR|%21|%28|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%33|T•K|HAYIR|%63|%54|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%34|3|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%37|1|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%47|
↳ 3|HAYIR|%0|EVET|%40|3|HAYIR|%0|EVET|%43|2|HAYIR|%0|EVET|%37|3|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%97|2|HAYIR|%0|EVET|%29|3
↳ |HAYIR|%0|EVET|%31
592 591|2026-08-17 18:36:57|4|2/3|HAYIR|%43|%21|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%31|T•B|EVET|%63|%57|VADI_YON|FRAGMENTARY_2|VADI>
↳ VADI>VADI|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%0|EVET|%31|1|EVET|%0|EVET|%27|3|HAYIR|%0|EVET|%38|1|EVET|%0|EVET|%34|3|HAYIR|%0|EVET|%33|3|HAY
↳ IR|%0|EVET|%39|2|HAYIR|%0|EVET|%38|2|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%30|1|EVET|%0|EVET|%25|2|HAYIR|%0|EVET|%29|3|HAYIR
↳ |%0|EVET|%30
593 592|2026-08-17 18:36:58|1|3/4|HAYIR|%43|%21|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%41|T•K|EVET|%63|%53|TEPE_YON|FRAGMENTARY_2|VADI>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%33|4|HAYIR|%0|EVET|%41|2|HAYIR|%0|EVET|%31|4|HAYIR|%0|EVET|%58|3|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%28|4|H
↳ AYIR|%0|EVET|%37|4|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%46|1|EVET|%0|EVET|%27|4|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%91|2|HAYIR|%0|EVET|%29|4|HAY
↳ IR|%0|EVET|%30
594 593|2026-08-17 18:36:59|1|2/4|HAYIR|%43|%21|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%27|C•K|EVET|%63|%57|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE|PATTERN_BREAK:0,59|EVET|%28|4|EVET|%0|EVET|%27|1|HAYIR|%20|EVET|%25|1|HAYIR|%0|EVET|%39|3|HAYIR|%20|EVET|%31|4|EVET|%20|EVET|%44|4|E
↳ VET|%0|EVET|%31|4|EVET|%0|EVET|%35|4|EVET|%0|EVET|%39|1|HAYIR|%20|EVET|%28|4|EVET|%0|EVET|%29|2|HAYIR|%20|EVET|%69|2|HAYIR|%0|EVET|%29|3|HAYI
↳ R|%0|EVET|%30
595 594|2026-08-17 18:37:02|4|2/3|EVET|%44|%22|HAYIR|%22|%47|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%35|C•B|EVET|%63|%52|TEPE_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU>TEPE||HAYIR|%56|3|HAYIR|%16|EVET|%35|2|EVET|%16|EVET|%27|3|HAYIR|%0|EVET|%48|4|HAYIR|%16|EVET|%33|2|EVET|%33|EVET|%46|2|EVET|%16|EVET|%4
↳ 7|3|HAYIR|%16|EVET|%30|3|HAYIR|%16|EVET|%34|3|HAYIR|%16|EVET|%29|2|EVET|%16|EVET|%29|3|HAYIR|%16|EVET|%80|2|EVET|%0|EVET|%29|3|HAYIR|%0|EVET|
↳ %30
596 595|2026-08-17 18:37:03|2|2/1|HAYIR|%43|%21|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%31|T•K|EVET|%63|%51|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|VADI>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%38|1|HAYIR|%14|EVET|%31|1|HAYIR|%28|EVET|%30|3|EVET|%0|EVET|%38|1|HAYIR|%14
↳ |EVET|%32|2|HAYIR|%42|EVET|%47|2|HAYIR|%28|EVET|%50|3|EVET|%14|EVET|%28|1|HAYIR|%14|EVET|%34|3|EVET|%14|EVET|%27|2|HAYIR|%28|EVET|%28|1|HAYIR
↳ |%14|EVET|%70|4|HAYIR|%14|EVET|%25|1|HAYIR|%0|EVET|%29
597 596|2026-08-17 18:37:04|3|2/1|HAYIR|%43|%21|HAYIR|%21|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%47|C•K|EVET|%63|%54|VADI_YON|FRAGMENTARY_2|VADI>
↳ DONGU>VADI|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%68|2|HAYIR|%12|EVET|%47|2|HAYIR|%25|EVET|%30|2|HAYIR|%12|EVET|%43|4|EVET|%12|EVET|%34|2
↳ |HAYIR|%37|EVET|%46|2|HAYIR|%25|EVET|%59|2|HAYIR|%25|EVET|%34|2|HAYIR|%12|EVET|%46|2|HAYIR|%25|EVET|%30|2|HAYIR|%25|EVET|%38|1|HAYIR|%12|EVET
↳ |%92|4|EVET|%12|EVET|%25|2|HAYIR|%0|EVET|%33
598 597|2026-08-17 18:37:06|4|4/3|HAYIR|%43|%21|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%44|C•K|EVET|%63|%53|VADI_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>VADI|PATTERN_BREAK:0,59|EVET|%34|3|HAYIR|%11|EVET|%44|4|HAYIR|%22|EVET|%27|3|HAYIR|%11|EVET|%40|2|EVET|%22|EVET|%39|4|HAYIR|%33|EVET|%2
↳ 8|3|HAYIR|%22|EVET|%43|2|EVET|%22|EVET|%30|2|EVET|%11|EVET|%29|3|HAYIR|%22|EVET|%29|3|HAYIR|%22|EVET|%31|3|HAYIR|%11|EVET|%88|4|HAYIR|%22|EVE
↳ T|%25|3|HAYIR|%0|EVET|%34
599 598|2026-08-17 18:37:08|2|3/2|EVET|%43|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%34|T•B|EVET|%63|%55|VADI_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%40|3|EVET|%10|EVET|%34|2|HAYIR|%20|EVET|%29|3|EVET|%10|EVET|%60|2|HAYIR|%30|EVET|%38|3|EVET|%30|EVET|
↳ %41|3|EVET|%20|EVET|%52|3|EVET|%30|EVET|%29|4|HAYIR|%20|EVET|%30|3|EVET|%20|EVET|%27|3|EVET|%20|EVET|%34|3|EVET|%10|EVET|%81|4|HAYIR|%20|EVET
↳ |%25|1|HAYIR|%0|EVET|%28
600 599|2026-08-17 18:37:09|3|1/2|HAYIR|%43|%22|HAYIR|%21|%45|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%41|T•K|HAYIR|%63|%53|DONGU_YON|FRAGMENTARY_2|VAD
↳ I>VADI>DONGU||HAYIR|%57|1|HAYIR|%18|EVET|%41|1|HAYIR|%18|EVET|%28|1|HAYIR|%18|EVET|%50|2|HAYIR|%27|EVET|%30|1|HAYIR|%36|EVET|%41|1|HAYIR|%27|
↳ EVET|%69|2|HAYIR|%36|EVET|%33|4|EVET|%18|EVET|%36|2|HAYIR|%27|EVET|%29|1|HAYIR|%27|EVET|%36|1|HAYIR|%18|EVET|%92|4|EVET|%18|EVET|%25|2|HAYIR|
↳ %0|EVET|%32
601 600|2026-08-17 18:37:11|4|2/3|EVET|%43|%22|HAYIR|%21|%46|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%40|C•K|EVET|%63|%56|DONGU_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>TEPE>DONGU||HAYIR|%58|3|HAYIR|%16|EVET|%40|2|EVET|%16|EVET|%31|2|EVET|%16|EVET|%54|2|EVET|%25|EVET|%46|4|HAYIR|%33|EVET|%28|3|HAYIR|%25|E
↳ VET|%42|2|EVET|%33|EVET|%31|2|EVET|%25|EVET|%36|3|HAYIR|%25|EVET|%28|2|EVET|%25|EVET|%32|3|HAYIR|%16|EVET|%84|4|HAYIR|%25|EVET|%25|3|HAYIR|%0
↳ |EVET|%33
602 601|2026-08-17 18:37:12|2|3/1|HAYIR|%43|%22|HAYIR|%21|%49|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%35|T•B|EVET|%63|%56|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>DONGU||HAYIR|%60|3|HAYIR|%15|EVET|%35|4|EVET|%23|EVET|%28|3|HAYIR|%23|EVET|%72|2|HAYIR|%30|EVET|%38|3|HAYIR|%30|EVET|%41|3|HAYIR|%23|EV
↳ ET|%52|3|HAYIR|%38|EVET|%31|4|EVET|%30|EVET|%32|3|HAYIR|%23|EVET|%28|3|HAYIR|%30|EVET|%37|3|HAYIR|%15|EVET|%86|2|HAYIR|%23|EVET|%29|1|HAYIR|%
↳ 0|EVET|%28
603 602|2026-08-17 18:37:13|4|2/4|HAYIR|%43|%22|EVET|%21|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%34|T•K|HAYIR|%63|%55|DONGU_YON|FRAGMENTARY_2|DONG
↳ U>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%61|2|HAYIR|%14|EVET|%34|2|HAYIR|%28|EVET|%30|1|HAYIR|%21|EVET|%48|1|HAYIR|%28|EVET|%36|2|HAYIR|%28|EVET
↳ |%34|2|HAYIR|%21|EVET|%36|2|HAYIR|%35|EVET|%32|2|HAYIR|%35|EVET|%44|3|HAYIR|%21|EVET|%28|2|HAYIR|%28|EVET|%33|1|HAYIR|%14|EVET|%77|2|HAYIR|%2
↳ 1|EVET|%29|1|HAYIR|%0|EVET|%28
604 603|2026-08-17 18:37:14|4|1/4|EVET|%44|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%26|%39|T•K|EVET|%63|%61|DONGU_YON|FRAGMENTARY_2|VADI>B
↳ LOK_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%42|1|EVET|%13|EVET|%39|1|EVET|%26|EVET|%28|3|HAYIR|%20|EVET|%34|1|EVET|%26|EVET|%41|2|HAYIR|%26|EVET|
↳ %34|1|EVET|%20|EVET|%45|2|HAYIR|%33|EVET|%30|2|HAYIR|%33|EVET|%36|3|HAYIR|%20|EVET|%28|1|EVET|%26|EVET|%32|1|EVET|%13|EVET|%91|2|HAYIR|%20|EV
↳ ET|%29|3|HAYIR|%0|EVET|%29
605 604|2026-08-17 18:37:17|1|4/2|EVET|%44|%22|HAYIR|%21|%43|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%39|T•B|EVET|%63|%52|DONGU_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>VADI>DONGU||HAYIR|%56|4|EVET|%18|EVET|%39|2|HAYIR|%31|EVET|%32|4|EVET|%18|EVET|%52|2|HAYIR|%31|EVET|%33|2|HAYIR|%25|EVET|%46|4|EVET|%25|EV
↳ ET|%36|4|EVET|%31|EVET|%31|4|EVET|%31|EVET|%44|1|HAYIR|%18|EVET|%27|4|EVET|%31|EVET|%32|4|EVET|%18|EVET|%90|2|HAYIR|%18|EVET|%29|1|HAYIR|%0|E
↳ VET|%32
606 605|2026-08-17 18:37:18|4|4/2|HAYIR|%44|%22|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%46|C•B|HAYIR|%63|%58|TEPE_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%54|4|HAYIR|%23|EVET|%46|1|EVET|%29|EVET|%26|4|HAYIR|%23|EVET|%77|4|HAYIR|%29|EVET|%33|4|HAYIR|%23|EVE
↳ T|%46|4|HAYIR|%29|EVET|%75|2|HAYIR|%35|EVET|%32|4|HAYIR|%35|EVET|%47|3|HAYIR|%17|EVET|%28|4|HAYIR|%35|EVET|%43|4|HAYIR|%23|EVET|%70|2|HAYIR|%
↳ 17|EVET|%29|3|HAYIR|%0|EVET|%29
607 606|2026-08-17 18:37:19|1|4/1|HAYIR|%43|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%45|C•K|HAYIR|%63|%51|TEPE_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%33|1|HAYIR|%22|EVET|%45|2|HAYIR|%33|EVET|%32|1|HAYIR|%22|EVET|%70|1|HAYIR|%27|EVET|%30|1|HAYIR|%22|EV
↳ ET|%42|1|HAYIR|%27|EVET|%64|4|HAYIR|%33|EVET|%32|4|HAYIR|%33|EVET|%49|1|HAYIR|%16|EVET|%27|1|HAYIR|%33|EVET|%36|1|HAYIR|%22|EVET|%96|2|HAYIR|
↳ %16|EVET|%28|4|HAYIR|%0|EVET|%32
608 607|2026-08-17 18:37:20|3|4/3|HAYIR|%43|%22|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%36|C•B|HAYIR|%63|%55|VADI_YON|FRAGMENTARY_2|TEKR
↳ AR>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%21|EVET|%36|4|HAYIR|%31|EVET|%26|3|HAYIR|%21|EVET|%52|4|HAYIR|%26|EVET|%32|3|HAYIR|%21|EVE
↳ T|%41|3|HAYIR|%26|EVET|%53|2|HAYIR|%31|EVET|%32|4|HAYIR|%31|EVET|%43|2|HAYIR|%15|EVET|%29|3|HAYIR|%31|EVET|%29|4|HAYIR|%21|EVET|%66|2|HAYIR|%
↳ 15|EVET|%29|4|HAYIR|%0|EVET|%33
609 608|2026-08-17 18:37:22|1|2/4|HAYIR|%43|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%42|T•B|EVET|%63|%52|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%20|EVET|%42|2|HAYIR|%30|EVET|%31|2|HAYIR|%20|EVET|%38|4|HAYIR|%25|EVET|%33|2|HAYIR|%20|E
↳ VET|%45|2|HAYIR|%25|EVET|%55|4|HAYIR|%30|EVET|%31|4|HAYIR|%30|EVET|%34|1|EVET|%15|EVET|%27|2|HAYIR|%30|EVET|%33|3|HAYIR|%20|EVET|%83|4|HAYIR|
↳ %15|EVET|%25|2|HAYIR|%0|EVET|%32
610 609|2026-08-17 18:37:23|1|4/3|HAYIR|%43|%22|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%32|T•B|EVET|%63|%50|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%46|4|HAYIR|%19|EVET|%32|1|EVET|%28|EVET|%27|4|HAYIR|%19|EVET|%37|4|HAYIR|%23|EVET|%33|3|HAYIR|%19|EV
↳ ET|%40|3|HAYIR|%23|EVET|%44|4|HAYIR|%28|EVET|%38|4|HAYIR|%28|EVET|%28|1|EVET|%19|EVET|%28|4|HAYIR|%28|EVET|%28|3|HAYIR|%19|EVET|%93|4|HAYIR|%
↳ 14|EVET|%25|3|HAYIR|%0|EVET|%29
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 611 ve sonrası)

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611 610|2026-08-17 18:37:24|1|2/3|EVET|%43|%22|HAYIR|%21|%38|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%30|C•K|EVET|%63|%53|DONGU_TERS_YON|FRAGMENTARY_2|D
↳ ALGA_TEK_SIM_3>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%65|2|EVET|%18|EVET|%30|2|EVET|%31|EVET|%30|2|EVET|%18|EVET|%34|4|HAYIR|%22|EVET|%30|
↳ 2|EVET|%18|EVET|%36|2|EVET|%22|EVET|%35|2|EVET|%27|EVET|%39|1|HAYIR|%27|EVET|%31|1|HAYIR|%22|EVET|%28|2|EVET|%27|EVET|%31|2|EVET|%18|EVET|%88
↳ |4|HAYIR|%13|EVET|%25|3|HAYIR|%0|EVET|%29
612 611|2026-08-17 18:37:26|2|1/4|HAYIR|%43|%22|EVET|%21|%30|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%35|T•K|HAYIR|%63|%54|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%21|EVET|%35|1|HAYIR|%34|EVET|%27|1|HAYIR|%21|EVET|%32|3|HAYIR|%21|EVET|%27|2|HAYIR|%21|EVET|%
↳ 33|1|HAYIR|%26|EVET|%32|3|HAYIR|%30|EVET|%30|3|HAYIR|%26|EVET|%37|3|HAYIR|%21|EVET|%28|3|HAYIR|%30|EVET|%27|3|HAYIR|%21|EVET|%94|4|EVET|%13|E
↳ VET|%25|3|HAYIR|%0|EVET|%32
613 612|2026-08-17 18:37:27|4|3/2|EVET|%44|%22|HAYIR|%21|%27|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%31|C•K|HAYIR|%63|%52|VADI_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>VADI|PATTERN_BREAK:0,59|EVET|%43|4|HAYIR|%20|EVET|%31|2|HAYIR|%33|EVET|%29|4|HAYIR|%20|EVET|%38|3|EVET|%20|EVET|%30|4|HAYIR|%20|EVET|%4
↳ 5|4|HAYIR|%25|EVET|%44|2|HAYIR|%29|EVET|%31|2|HAYIR|%25|EVET|%36|3|EVET|%20|EVET|%27|4|HAYIR|%29|EVET|%28|2|HAYIR|%20|EVET|%58|4|HAYIR|%16|EV
↳ ET|%25|1|HAYIR|%0|EVET|%28
614 613|2026-08-17 18:37:29|3|1/4|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%35|C•K|EVET|%63|%55|TEPE_YON|FRAGMENTARY_2|VADI>T
↳ EPE>TEPE|PATTERN_BREAK:0,59|EVET|%38|2|EVET|%20|EVET|%35|1|HAYIR|%32|EVET|%28|2|EVET|%20|EVET|%40|3|HAYIR|%24|EVET|%38|2|EVET|%20|EVET|%28|2|
↳ EVET|%24|EVET|%36|2|EVET|%28|EVET|%31|4|HAYIR|%24|EVET|%29|2|EVET|%24|EVET|%29|2|EVET|%28|EVET|%30|2|EVET|%20|EVET|%75|4|HAYIR|%16|EVET|%25|2
↳ |EVET|%0|EVET|%30
615 614|2026-08-17 18:37:30|2|4/2|HAYIR|%43|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%34|C•B|HAYIR|%63|%59|TEPE_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%49|2|HAYIR|%23|EVET|%34|2|HAYIR|%30|EVET|%28|4|HAYIR|%23|EVET|%36|2|HAYIR|%23|EVET|%35|2|HAYIR|%23|EVET|%
↳ 45|2|HAYIR|%26|EVET|%44|4|HAYIR|%30|EVET|%30|3|HAYIR|%23|EVET|%27|3|HAYIR|%26|EVET|%27|2|HAYIR|%30|EVET|%31|2|HAYIR|%23|EVET|%40|2|HAYIR|%15|
↳ EVET|%28|4|HAYIR|%3|EVET|%31
616 615|2026-08-17 18:37:32|1|1/2|HAYIR|%43|%22|HAYIR|%21|%30|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%37|T•K|HAYIR|%63|%53|TEPE_YON|FRAGMENTARY_2|DONG
↳ U_TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%22|EVET|%37|1|HAYIR|%29|EVET|%27|2|HAYIR|%22|EVET|%31|3|HAYIR|%22|EVET|%29|2|HAYIR|%22|
↳ EVET|%37|2|HAYIR|%25|EVET|%44|4|EVET|%29|EVET|%31|4|EVET|%22|EVET|%36|1|HAYIR|%25|EVET|%28|2|HAYIR|%29|EVET|%30|2|HAYIR|%22|EVET|%93|2|HAYIR|
↳ %14|EVET|%28|1|HAYIR|%3|EVET|%36
617 616|2026-08-17 18:37:33|4|4/2|EVET|%43|%22|HAYIR|%21|%26|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%27|C•K|EVET|%63|%53|TEPE_YON|FRAGMENTARY_2|VADI>T
↳ EPE>TEPE|PATTERN_BREAK:0,59|EVET|%33|2|HAYIR|%21|EVET|%27|2|HAYIR|%28|EVET|%29|1|HAYIR|%21|EVET|%48|4|EVET|%21|EVET|%44|4|EVET|%21|EVET|%45|4
↳ |EVET|%25|EVET|%36|2|HAYIR|%32|EVET|%30|3|HAYIR|%25|EVET|%29|3|HAYIR|%25|EVET|%28|4|EVET|%28|EVET|%30|1|HAYIR|%21|EVET|%69|2|HAYIR|%14|EVET|%
↳ 28|3|HAYIR|%3|EVET|%28
618 617|2026-08-17 18:37:34|4|1/3|HAYIR|%43|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%38|T•K|HAYIR|%63|%54|TEPE_YON|FRAGMENTARY_2|TEPE
↳ >VADI>TEPE|PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%20|EVET|%38|4|EVET|%27|EVET|%28|1|HAYIR|%20|EVET|%38|4|EVET|%24|EVET|%34|1|HAYIR|%24|EVET|%43
↳ |1|HAYIR|%27|EVET|%48|1|HAYIR|%31|EVET|%32|1|HAYIR|%24|EVET|%35|3|HAYIR|%24|EVET|%28|1|HAYIR|%31|EVET|%35|3|HAYIR|%20|EVET|%53|2|HAYIR|%13|EV
↳ ET|%28|1|HAYIR|%3|EVET|%29
619 618|2026-08-17 18:37:35|4|2/4|HAYIR|%43|%22|HAYIR|%21|%25|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%37|T•B|EVET|%63|%52|TEPE_YON|FRAGMENTARY_2|DONGU
↳ _TERS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%39|1|HAYIR|%20|EVET|%37|2|HAYIR|%30|EVET|%27|1|HAYIR|%20|EVET|%39|1|HAYIR|%26|EVET|%48|4|HAYIR
↳ |%23|EVET|%27|3|EVET|%26|EVET|%35|3|EVET|%30|EVET|%42|2|HAYIR|%23|EVET|%39|3|EVET|%23|EVET|%28|1|HAYIR|%30|EVET|%28|3|EVET|%20|EVET|%97|2|HAY
↳ IR|%13|EVET|%28|1|HAYIR|%3|EVET|%28
620 619|2026-08-17 18:37:37|3|4/1|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%35|T•B|EVET|%63|%51|VADI_YON|FRAGMENTARY_2|VADI>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%54|2|HAYIR|%19|EVET|%35|4|HAYIR|%29|EVET|%28|1|HAYIR|%19|EVET|%46|4|HAYIR|%25|EVET|%34|4|HAYIR|%22|EVET|%4
↳ 6|4|HAYIR|%29|EVET|%35|2|HAYIR|%32|EVET|%32|4|HAYIR|%22|EVET|%35|2|HAYIR|%25|EVET|%29|4|HAYIR|%29|EVET|%31|1|HAYIR|%22|EVET|%73|2|HAYIR|%12|E
↳ VET|%28|2|HAYIR|%3|EVET|%31
621 620|2026-08-17 18:37:38|3|2/4|HAYIR|%43|%22|HAYIR|%21|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%31|C•K|EVET|%63|%57|VADI_YON|FRAGMENTARY_2|TEPE>
↳ VADI>VADI|PATTERN_BREAK:0,59|EVET|%63|2|HAYIR|%18|EVET|%31|2|HAYIR|%28|EVET|%27|2|HAYIR|%18|EVET|%52|4|HAYIR|%25|EVET|%52|3|HAYIR|%21|EVET|%4
↳ 1|3|HAYIR|%28|EVET|%40|2|HAYIR|%31|EVET|%33|2|HAYIR|%21|EVET|%30|2|HAYIR|%25|EVET|%29|2|HAYIR|%28|EVET|%29|1|EVET|%21|EVET|%83|2|HAYIR|%12|EV
↳ ET|%28|2|HAYIR|%3|EVET|%32
622 621|2026-08-17 18:37:40|1|4/3|HAYIR|%43|%22|HAYIR|%21|%25|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%31|C•K|EVET|%63|%55|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|VADI>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%32|4|HAYIR|%18|EVET|%31|1|EVET|%27|EVET|%28|4|HAYIR|%18|EVET|%47|2|HAYIR|%2
↳ 4|EVET|%29|4|HAYIR|%21|EVET|%29|2|HAYIR|%27|EVET|%37|4|HAYIR|%30|EVET|%32|4|HAYIR|%21|EVET|%37|1|EVET|%24|EVET|%28|4|HAYIR|%27|EVET|%30|3|HAY
↳ IR|%24|EVET|%56|4|HAYIR|%12|EVET|%26|2|HAYIR|%3|EVET|%31
623 622|2026-08-17 18:37:40|1|2/4|EVET|%43|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%29|C•K|EVET|%63|%51|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ TEPE>TEPE|REGIME_SHIFT:0,50|EVET|%44|1|HAYIR|%17|EVET|%29|2|EVET|%29|EVET|%26|2|EVET|%17|EVET|%38|4|HAYIR|%23|EVET|%27|1|HAYIR|%20|EVET|%31|1
↳ |HAYIR|%26|EVET|%39|4|HAYIR|%29|EVET|%37|4|HAYIR|%20|EVET|%35|1|HAYIR|%26|EVET|%28|1|HAYIR|%26|EVET|%26|3|HAYIR|%23|EVET|%90|4|HAYIR|%11|EVET
↳ |%26|3|HAYIR|%2|EVET|%28
624 623|2026-08-17 18:37:43|2|4/1|EVET|%43|%22|HAYIR|%21|%57|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%36|T•B|EVET|%63|%56|VADI_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>TEPE>VADI||HAYIR|%75|4|EVET|%17|EVET|%36|4|EVET|%31|EVET|%28|1|HAYIR|%20|EVET|%41|4|EVET|%22|EVET|%28|4|EVET|%20|EVET|%25|3|HAYIR|%25|EVE
↳ T|%35|4|EVET|%28|EVET|%29|3|HAYIR|%20|EVET|%35|3|HAYIR|%25|EVET|%27|3|HAYIR|%25|EVET|%27|3|HAYIR|%22|EVET|%93|4|EVET|%11|EVET|%25|4|EVET|%2|E
↳ VET|%32
625 624|2026-08-17 18:37:44|4|3/2|HAYIR|%43|%22|EVET|%21|%51|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%33|T•K|EVET|%63|%53|VADI_YON|FRAGMENTARY_2|DONGU_
↳ TERS>TEPE>VADI||HAYIR|%76|3|HAYIR|%19|EVET|%33|2|EVET|%33|EVET|%28|3|HAYIR|%19|EVET|%48|1|HAYIR|%25|EVET|%31|4|HAYIR|%22|EVET|%33|3|HAYIR|%25
↳ |EVET|%38|2|EVET|%30|EVET|%30|2|EVET|%19|EVET|%28|3|HAYIR|%25|EVET|%28|3|HAYIR|%25|EVET|%31|2|EVET|%22|EVET|%55|4|HAYIR|%13|EVET|%25|1|HAYIR|
↳ %5|EVET|%27
626 625|2026-08-17 18:37:45|2|4/1|HAYIR|%43|%22|HAYIR|%21|%37|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%39|T•K|EVET|%63|%53|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%66|1|HAYIR|%18|EVET|%39|4|HAYIR|%35|EVET|%30|1|HAYIR|%18|EVET|%44|2|HAYIR|%24|EVET|%33|4|HAYIR|%21|EVET|%2
↳ 9|1|HAYIR|%24|EVET|%33|4|HAYIR|%32|EVET|%30|1|HAYIR|%21|EVET|%31|3|EVET|%24|EVET|%27|1|HAYIR|%24|EVET|%30|1|HAYIR|%24|EVET|%93|4|HAYIR|%13|EV
↳ ET|%25|1|HAYIR|%5|EVET|%27
627 626|2026-08-17 18:37:46|3|2/3|HAYIR|%43|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%33|C•K|EVET|%63|%51|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%71|1|HAYIR|%18|EVET|%33|2|HAYIR|%34|EVET|%33|1|HAYIR|%18|EVET|%38|3|HAYIR|%23|EVET|%29|2|HAYIR|%21|EV
↳ ET|%32|1|HAYIR|%23|EVET|%44|2|HAYIR|%31|EVET|%32|2|HAYIR|%21|EVET|%35|2|HAYIR|%26|EVET|%29|2|HAYIR|%23|EVET|%29|1|HAYIR|%23|EVET|%92|4|EVET|%
↳ 13|EVET|%25|2|HAYIR|%5|EVET|%31
628 627|2026-08-17 18:37:59|4|1/4|HAYIR|%43|%22|EVET|%21|%44|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%48|C•K|EVET|%63|%52|VADI_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>VADI>VADI||HAYIR|%66|2|HAYIR|%17|EVET|%48|1|HAYIR|%33|EVET|%30|2|HAYIR|%17|EVET|%63|2|HAYIR|%23|EVET|%34|2|HAYIR|%20|EVET|%44|2|HAYIR|%23|
↳ EVET|%60|2|HAYIR|%30|EVET|%31|4|EVET|%20|EVET|%31|3|HAYIR|%25|EVET|%28|2|HAYIR|%23|EVET|%36|3|HAYIR|%23|EVET|%79|2|HAYIR|%15|EVET|%28|3|HAYIR
↳ |%5|EVET|%32
629 628|2026-08-17 18:38:00|4|2/4|HAYIR|%43|%22|EVET|%21|%29|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%28|T•B|EVET|%63|%52|BLOK_DUZ_TEKRAR|FRAGMENTARY_2|
↳ BLOK_DUZ>VADI>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%49|4|EVET|%17|EVET|%28|2|HAYIR|%32|EVET|%33|1|HAYIR|%17|EVET|%33|3|HAYIR|%2
↳ 2|EVET|%30|4|EVET|%20|EVET|%38|4|EVET|%22|EVET|%39|1|HAYIR|%30|EVET|%31|2|HAYIR|%22|EVET|%31|3|HAYIR|%25|EVET|%28|4|EVET|%22|EVET|%26|2|HAYIR
↳ |%22|EVET|%86|2|HAYIR|%15|EVET|%28|3|HAYIR|%5|EVET|%29
630 629|2026-08-17 18:38:02|4|4/1|EVET|%43|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%31|T•B|EVET|%63|%58|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
↳ |TEPE>BLOK_TERS>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|%57|3|HAYIR|%19|EVET|%31|4|EVET|%31|EVET|%41|1|HAYIR|%17|EVET|%32|3|HAYIR|%21|EVET|%33|3|HAY
↳ IR|%21|EVET|%40|3|HAYIR|%24|EVET|%49|3|HAYIR|%29|EVET|%48|4|EVET|%21|EVET|%28|3|HAYIR|%24|EVET|%27|3|HAYIR|%24|EVET|%31|3|HAYIR|%21|EVET|%98|
↳ 2|HAYIR|%14|EVET|%28|3|HAYIR|%4|EVET|%28
631 630|2026-08-17 18:38:04|4|3/2|HAYIR|%44|%22|EVET|%21|%29|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%46|T•B|HAYIR|%63|%59|BLOK_DUZ_TEKRAR|FRAGMENTARY_
↳ 2|TEPE>TEPE>BLOK_DUZ|PATTERN_BREAK:0,59|EVET|%54|1|HAYIR|%19|EVET|%46|2|EVET|%33|EVET|%28|1|HAYIR|%16|EVET|%41|1|HAYIR|%21|EVET|%39|1|HAYIR|%
↳ 21|EVET|%42|1|HAYIR|%23|EVET|%69|1|HAYIR|%28|EVET|%49|4|HAYIR|%23|EVET|%29|3|HAYIR|%23|EVET|%27|1|HAYIR|%23|EVET|%40|1|HAYIR|%21|EVET|%66|2|E
↳ VET|%14|EVET|%28|3|HAYIR|%4|EVET|%27
632 631|2026-08-17 18:38:08|2|4/1|HAYIR|%43|%22|HAYIR|%21|%33|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%41|T•K|EVET|%63|%57|VADI_YON|FRAGMENTARY_2|AZALI
↳ S>VADI>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%59|1|HAYIR|%18|EVET|%41|4|HAYIR|%34|EVET|%30|1|HAYIR|%16|EVET|%41|1|HAYIR|%20|EVET|%36
↳ |1|HAYIR|%20|EVET|%42|1|HAYIR|%23|EVET|%51|4|HAYIR|%27|EVET|%30|4|HAYIR|%23|EVET|%30|3|EVET|%23|EVET|%27|1|HAYIR|%23|EVET|%35|1|HAYIR|%20|EVE
↳ T|%97|2|HAYIR|%16|EVET|%28|3|EVET|%4|EVET|%28
633 632|2026-08-17 18:38:09|3|2/4|EVET|%44|%22|HAYIR|%21|%55|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%31|T•K|EVET|%63|%50|TEPE_YON|FRAGMENTARY_2|VADI>V
↳ ADI>TEPE||HAYIR|%83|4|HAYIR|%18|EVET|%31|2|EVET|%34|EVET|%29|1|HAYIR|%15|EVET|%34|1|HAYIR|%20|EVET|%27|4|HAYIR|%20|EVET|%29|1|HAYIR|%22|EVET|
↳ %39|2|EVET|%27|EVET|%31|4|HAYIR|%22|EVET|%48|2|EVET|%25|EVET|%29|4|HAYIR|%22|EVET|%31|1|HAYIR|%20|EVET|%92|2|EVET|%15|EVET|%28|2|EVET|%6|EVET
↳ |%31
634 633|2026-08-17 18:38:11|2|4/1|HAYIR|%44|%22|HAYIR|%21|%39|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%42|C•B|EVET|%63|%56|TEPE_YON|FRAGMENTARY_2|VADI>
↳ VADI>TEPE|PATTERN_BREAK:0,59|EVET|%68|4|HAYIR|%17|EVET|%42|4|HAYIR|%35|EVET|%28|4|HAYIR|%15|EVET|%30|4|HAYIR|%20|EVET|%31|4|HAYIR|%20|EVET|%4
↳ 7|4|HAYIR|%22|EVET|%65|3|HAYIR|%28|EVET|%30|4|HAYIR|%22|EVET|%29|3|HAYIR|%26|EVET|%28|4|HAYIR|%22|EVET|%36|3|HAYIR|%20|EVET|%54|2|EVET|%17|EV
↳ ET|%28|4|HAYIR|%8|EVET|%30
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 635 ve sonrası)

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635 634|2026-08-17 18:38:12|2|2/1|EVET|%44|%22|HAYIR|%21|%31|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%34|T•K|EVET|%63|%52|BLOK_TERS_TEKRAR|FRAGMENTARY_2
↳ |BLOK_DUZ>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%52|2|EVET|%17|EVET|%34|2|EVET|%34|EVET|%42|1|HAYIR|%15|EVET|%34|3|HAYIR|%
↳ 19|EVET|%36|4|HAYIR|%19|EVET|%30|2|EVET|%21|EVET|%31|3|HAYIR|%28|EVET|%35|2|EVET|%21|EVET|%30|3|HAYIR|%26|EVET|%28|2|EVET|%21|EVET|%29|1|HAYI
↳ R|%19|EVET|%48|4|HAYIR|%19|EVET|%26|3|HAYIR|%8|EVET|%29
636 635|2026-08-17 18:38:13|2|1/4|HAYIR|%44|%22|HAYIR|%21|%32|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%39|T•B|HAYIR|%63|%54|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>VADI>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%59|2|EVET|%19|EVET|%39|1|HAYIR|%36|EVET|%28|2|EVET|%14|EVET|%42|1|HAYIR|%19|EVET|%3
↳ 3|2|EVET|%19|EVET|%46|2|EVET|%23|EVET|%57|3|HAYIR|%27|EVET|%45|1|HAYIR|%23|EVET|%28|3|HAYIR|%25|EVET|%27|2|EVET|%23|EVET|%32|3|HAYIR|%19|EVET
↳ |%69|4|HAYIR|%19|EVET|%26|3|HAYIR|%8|EVET|%29
637 636|2026-08-17 18:38:14|2|2/1|HAYIR|%44|%22|EVET|%21|%40|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%50|T•K|EVET|%63|%58|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>BLOK_DUZ>VADI|PATTERN_BREAK:0,59|EVET|%62|1|EVET|%20|EVET|%50|2|HAYIR|%35|EVET|%36|1|EVET|%16|EVET|%39|1|EVET|%18|EVET|%41|1|EVET|%20|EVET
↳ |%40|1|EVET|%25|EVET|%80|1|EVET|%27|EVET|%49|2|HAYIR|%22|EVET|%34|3|HAYIR|%25|EVET|%27|1|EVET|%25|EVET|%42|1|EVET|%18|EVET|%99|4|HAYIR|%18|EV
↳ ET|%26|3|HAYIR|%8|EVET|%28
638 637|2026-08-17 18:38:16|1|1/2|HAYIR|%44|%22|HAYIR|%21|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%38|T•B|EVET|%63|%51|DONGU_TERS_YON|FRAGMENTARY_2
↳ |BLOK_TERS>BLOK_DUZ>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%58|1|HAYIR|%22|EVET|%38|1|HAYIR|%34|EVET|%28|3|EVET|%18|EVET|%47|3|EVET|%20|EVET|%41|
↳ 3|EVET|%22|EVET|%39|3|EVET|%26|EVET|%60|4|HAYIR|%28|EVET|%32|4|HAYIR|%22|EVET|%34|1|HAYIR|%24|EVET|%28|3|EVET|%26|EVET|%35|1|HAYIR|%20|EVET|%
↳ 64|4|HAYIR|%18|EVET|%26|1|HAYIR|%8|EVET|%35
639 638|2026-08-17 18:38:17|3|2/1|EVET|%44|%22|HAYIR|%21|%46|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%51|C•K|EVET|%64|%58|TEPE_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>BLOK_DUZ>TEPE|PATTERN_BREAK:0,59|EVET|%71|2|EVET|%22|EVET|%51|2|EVET|%34|EVET|%43|2|EVET|%20|EVET|%59|2|EVET|%22|EVET|%28|2|EVET|%24|EVET|
↳ %46|2|EVET|%28|EVET|%79|2|EVET|%28|EVET|%33|2|EVET|%22|EVET|%38|2|EVET|%24|EVET|%29|2|EVET|%28|EVET|%46|2|EVET|%20|EVET|%61|4|HAYIR|%18|EVET|
↳ %26|4|HAYIR|%8|EVET|%32
640 639|2026-08-17 18:38:18|2|1/2|EVET|%44|%22|HAYIR|%21|%35|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%26|%46|C•K|EVET|%64|%55|BLOK_TERS_TEKRAR|FRAGMENTARY_2
↳ |VADI>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%63|1|EVET|%23|EVET|%46|1|EVET|%35|EVET|%28|1|EVET|%21|EVET|%75|2|HAYIR|%23|EV
↳ ET|%38|1|EVET|%25|EVET|%41|1|EVET|%29|EVET|%82|3|HAYIR|%29|EVET|%29|3|HAYIR|%23|EVET|%32|3|HAYIR|%25|EVET|%27|1|EVET|%29|EVET|%42|3|HAYIR|%21
↳ |EVET|%60|4|HAYIR|%17|EVET|%25|4|HAYIR|%7|EVET|%29
641 640|2026-08-17 18:38:20|1|3/2|HAYIR|%44|%22|HAYIR|%21|%29|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%53|C•B|HAYIR|%63|%51|TEPE_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>TEPE>TEPE|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%25|EVET|%53|2|HAYIR|%36|EVET|%33|3|HAYIR|%23|EVET|%63|2|HAYIR|%23|EVET|
↳ %34|3|HAYIR|%26|EVET|%40|3|HAYIR|%30|EVET|%74|4|HAYIR|%28|EVET|%31|4|HAYIR|%23|EVET|%34|1|EVET|%25|EVET|%28|3|HAYIR|%30|EVET|%42|2|HAYIR|%21|
↳ EVET|%93|2|HAYIR|%17|EVET|%29|1|EVET|%7|EVET|%34
642 641|2026-08-17 18:38:21|1|4/1|HAYIR|%44|%22|EVET|%21|%34|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%31|C•B|HAYIR|%63|%57|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%49|4|HAYIR|%24|EVET|%31|4|HAYIR|%35|EVET|%30|4|HAYIR|%22|EVET|%42|4|HAYIR|%22|EVET|%33|1|EVET|%26|EVET|%42
↳ |3|HAYIR|%30|EVET|%29|4|HAYIR|%28|EVET|%34|1|EVET|%22|EVET|%33|1|EVET|%26|EVET|%28|4|HAYIR|%30|EVET|%30|4|HAYIR|%20|EVET|%78|2|HAYIR|%16|EVET
↳ |%29|3|HAYIR|%9|EVET|%27
643 642|2026-08-17 18:38:23|1|2/3|HAYIR|%44|%22|EVET|%21|%29|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%36|T•K|EVET|%63|%53|BLOK_TERS_TEKRAR|FRAGMENTARY_
↳ 2|DONGU_TERS>BLOK_TERS>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%34|2|HAYIR|%24|EVET|%36|2|HAYIR|%35|EVET|%60|1|HAYIR|%22|EVET|%45
↳ |2|HAYIR|%22|EVET|%31|3|EVET|%27|EVET|%39|3|EVET|%29|EVET|%41|2|HAYIR|%27|EVET|%45|1|HAYIR|%24|EVET|%32|1|HAYIR|%27|EVET|%29|2|HAYIR|%29|EVET
↳ |%34|2|HAYIR|%20|EVET|%92|2|HAYIR|%16|EVET|%28|1|HAYIR|%9|EVET|%28
644 643|2026-08-17 18:38:25|3|4/2|HAYIR|%44|%22|HAYIR|%21|%34|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%34|C•B|HAYIR|%63|%52|VADI_YON|FRAGMENTARY_2|VADI
↳ >VADI>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%51|4|HAYIR|%23|EVET|%34|1|EVET|%34|EVET|%29|4|HAYIR|%21|EVET|%38|2|HAYIR|%21|EVET|%32|4
↳ |HAYIR|%29|EVET|%45|4|HAYIR|%30|EVET|%48|2|HAYIR|%27|EVET|%34|4|HAYIR|%23|EVET|%32|2|HAYIR|%27|EVET|%30|4|HAYIR|%29|EVET|%35|3|HAYIR|%20|EVET
↳ |%79|2|HAYIR|%16|EVET|%29|4|HAYIR|%9|EVET|%31
645 644|2026-08-17 18:38:26|1|1/3|HAYIR|%44|%22|EVET|%21|%25|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%29|C•K|HAYIR|%63|%55|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%23|EVET|%29|2|HAYIR|%35|EVET|%33|2|HAYIR|%21|EVET|%29|4|HAYIR|%21|EVET|%29|3|EVET|%28|EVET
↳ |%34|3|EVET|%30|EVET|%42|4|HAYIR|%26|EVET|%31|1|HAYIR|%23|EVET|%32|1|HAYIR|%26|EVET|%29|1|HAYIR|%28|EVET|%26|3|EVET|%19|EVET|%78|2|HAYIR|%16|
↳ EVET|%28|2|HAYIR|%8|EVET|%30
646 645|2026-08-17 18:38:26|3|4/2|HAYIR|%44|%22|HAYIR|%21|%42|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%42|C•B|EVET|%63|%54|VADI_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%51|4|HAYIR|%22|EVET|%42|1|HAYIR|%35|EVET|%28|4|HAYIR|%21|EVET|%53|4|HAYIR|%21|EVET|%37|4|HAYIR|%
↳ 29|EVET|%36|4|HAYIR|%31|EVET|%54|2|HAYIR|%26|EVET|%33|4|HAYIR|%22|EVET|%37|2|HAYIR|%26|EVET|%30|4|HAYIR|%28|EVET|%38|4|HAYIR|%21|EVET|%99|2|H
↳ AYIR|%15|EVET|%28|4|HAYIR|%8|EVET|%30
647 646|2026-08-17 18:38:27|3|2/1|HAYIR|%44|%22|EVET|%21|%43|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%40|T•K|EVET|%63|%51|VADI_YON|FRAGMENTARY_2|TEKRAR
↳ >TEPE>VADI|PATTERN_BREAK:0,59|EVET|%72|2|HAYIR|%22|EVET|%40|2|HAYIR|%34|EVET|%33|4|HAYIR|%20|EVET|%52|1|EVET|%20|EVET|%32|2|HAYIR|%29|EVET|%4
↳ 5|2|HAYIR|%31|EVET|%53|1|EVET|%25|EVET|%31|2|HAYIR|%22|EVET|%33|2|HAYIR|%25|EVET|%29|2|HAYIR|%27|EVET|%36|2|HAYIR|%20|EVET|%95|2|HAYIR|%15|EV
↳ ET|%28|2|HAYIR|%8|EVET|%32
648 647|2026-08-17 18:38:28|1|4/1|HAYIR|%44|%22|EVET|%22|%55|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%35|T•B|EVET|%63|%55|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>BLOK_TERS>TEPE||HAYIR|%60|4|HAYIR|%22|EVET|%35|1|EVET|%33|EVET|%27|4|HAYIR|%20|EVET|%45|2|HAYIR|%22|EVET|%30|4|HAYIR|%28|EVET|%44|4|HAYIR
↳ |%30|EVET|%48|4|HAYIR|%27|EVET|%30|1|EVET|%22|EVET|%34|1|EVET|%25|EVET|%28|4|HAYIR|%27|EVET|%36|3|HAYIR|%20|EVET|%56|4|HAYIR|%15|EVET|%25|2|H
↳ AYIR|%8|EVET|%29
649 648|2026-08-17 18:38:29|1|2/1|HAYIR|%44|%22|HAYIR|%22|%41|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%35|T•K|HAYIR|%63|%54|TEPE_YON|FRAGMENTARY_2|VADI
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%64|2|HAYIR|%21|EVET|%35|2|HAYIR|%35|EVET|%30|2|HAYIR|%20|EVET|%53|1|HAYIR|%21|EVET|%29|2|HAYIR|%28|EVET|%
↳ 44|2|HAYIR|%30|EVET|%53|4|EVET|%26|EVET|%34|1|HAYIR|%23|EVET|%32|1|HAYIR|%26|EVET|%29|2|HAYIR|%26|EVET|%34|3|HAYIR|%20|EVET|%90|4|EVET|%15|EV
↳ ET|%25|3|HAYIR|%8|EVET|%29
650 649|2026-08-17 18:38:30|4|3/2|HAYIR|%44|%22|EVET|%22|%25|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%34|C•K|EVET|%63|%50|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
↳ |DONGU_TERS>TEPE>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%35|3|HAYIR|%21|EVET|%34|4|HAYIR|%34|EVET|%29|3|HAYIR|%19|EVET|%54|4|HAYI
↳ R|%21|EVET|%37|3|HAYIR|%27|EVET|%41|3|HAYIR|%29|EVET|%60|2|EVET|%27|EVET|%31|4|HAYIR|%22|EVET|%38|3|HAYIR|%26|EVET|%27|3|HAYIR|%26|EVET|%35|3
↳ |HAYIR|%19|EVET|%72|4|HAYIR|%16|EVET|%25|3|HAYIR|%8|EVET|%27
651 650|2026-08-17 18:38:31|2|3/2|EVET|%44|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%25|%40|T•B|EVET|%63|%54|TEPE_YON|FRAGMENTARY_2|TEPE>BL
↳ OK_TERS>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%37|3|EVET|%20|EVET|%40|2|HAYIR|%33|EVET|%27|3|EVET|%19|EVET|%64|1|HAYIR|%20|EVET|%28|
↳ 3|EVET|%27|EVET|%32|3|EVET|%29|EVET|%46|3|EVET|%29|EVET|%29|3|EVET|%22|EVET|%31|3|EVET|%25|EVET|%27|3|EVET|%25|EVET|%35|1|HAYIR|%19|EVET|%59|
↳ 4|HAYIR|%16|EVET|%25|3|EVET|%8|EVET|%30
652 651|2026-08-17 18:38:32|3|4/2|HAYIR|%44|%22|HAYIR|%22|%33|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%36|C•K|EVET|%63|%56|BLOK_DUZ_TEKRAR|FRAGMENTARY_
↳ 2|BLOK_TERS>VADI>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%48|2|HAYIR|%22|EVET|%36|1|EVET|%33|EVET|%37|4|HAYIR|%20|EVET|%40|4|HAYIR|%20|EVET|%30|2|HAY
↳ IR|%28|EVET|%32|2|HAYIR|%30|EVET|%36|2|HAYIR|%30|EVET|%33|2|HAYIR|%23|EVET|%34|2|HAYIR|%26|EVET|%29|2|HAYIR|%26|EVET|%31|1|EVET|%19|EVET|%86|
↳ 4|HAYIR|%15|EVET|%25|2|HAYIR|%9|EVET|%32
653 652|2026-08-17 18:38:34|1|4/2|HAYIR|%44|%22|EVET|%22|%26|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%29|C•K|EVET|%64|%52|VADI_YON|FRAGMENTARY_2|TEKRAR
↳ >TEPE>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%31|4|HAYIR|%21|EVET|%29|2|EVET|%34|EVET|%31|2|EVET|%20|EVET|%32|1|HAYIR|%20|EVET|%33|4|
↳ HAYIR|%28|EVET|%43|4|HAYIR|%29|EVET|%36|4|HAYIR|%29|EVET|%30|1|HAYIR|%23|EVET|%32|1|HAYIR|%26|EVET|%29|4|HAYIR|%26|EVET|%28|2|EVET|%20|EVET|%
↳ 46|4|HAYIR|%15|EVET|%25|2|EVET|%9|EVET|%29
654 653|2026-08-17 18:38:35|2|4/1|EVET|%44|%22|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%38|T•K|HAYIR|%63|%50|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%38|4|EVET|%21|EVET|%38|1|HAYIR|%35|EVET|%32|4|EVET|%21|EVET|%39|1|HAYIR|%20|EVET|%34|4|EVET|%27|EVET|%
↳ 31|4|EVET|%29|EVET|%45|3|HAYIR|%29|EVET|%30|4|EVET|%23|EVET|%29|3|HAYIR|%26|EVET|%27|4|EVET|%26|EVET|%29|2|HAYIR|%21|EVET|%46|2|HAYIR|%15|EVE
↳ T|%28|4|EVET|%10|EVET|%33
655 654|2026-08-17 18:38:36|4|2/4|EVET|%44|%22|HAYIR|%22|%56|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%26|%30|T•B|HAYIR|%63|%54|DONGU_TERS_YON|FRAGMENTARY_2|
↳ VADI>VADI>DONGU_TERS||HAYIR|%76|2|EVET|%22|EVET|%30|2|EVET|%34|EVET|%31|2|EVET|%22|EVET|%42|3|HAYIR|%19|EVET|%38|2|EVET|%28|EVET|%28|3|HAYIR|
↳ %30|EVET|%29|2|EVET|%28|EVET|%32|2|EVET|%24|EVET|%36|3|HAYIR|%25|EVET|%27|2|EVET|%27|EVET|%31|2|EVET|%21|EVET|%67|2|EVET|%15|EVET|%28|1|HAYIR
↳ |%12|EVET|%26
656 655|2026-08-17 18:38:37|2|1/2|HAYIR|%44|%22|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%36|T•B|EVET|%63|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DONGU>TEPE>DONGU_TERS||HAYIR|%38|3|HAYIR|%23|EVET|%36|4|EVET|%35|EVET|%28|3|HAYIR|%23|EVET|%30|2|HAYIR|%19|EVET|%37|2|HAYIR|%29|EVET|%45|2|H
↳ AYIR|%29|EVET|%36|3|HAYIR|%29|EVET|%30|1|HAYIR|%25|EVET|%32|3|HAYIR|%25|EVET|%27|3|HAYIR|%28|EVET|%26|1|HAYIR|%22|EVET|%90|2|HAYIR|%16|EVET|%
↳ 28|3|HAYIR|%11|EVET|%31
657 656|2026-08-17 18:38:38|4|2/4|HAYIR|%44|%22|HAYIR|%22|%43|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%29|T•K|EVET|%63|%58|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%72|2|HAYIR|%23|EVET|%29|2|HAYIR|%36|EVET|%31|4|HAYIR|%23|EVET|%48|3|EVET|%19|EVET|%30|2|HAYIR|
↳ %29|EVET|%45|2|HAYIR|%29|EVET|%33|2|HAYIR|%29|EVET|%33|2|HAYIR|%25|EVET|%41|2|HAYIR|%25|EVET|%27|2|HAYIR|%27|EVET|%30|1|HAYIR|%22|EVET|%74|2|
↳ HAYIR|%16|EVET|%28|2|HAYIR|%11|EVET|%28
658 657|2026-08-17 18:38:40|3|4/1|HAYIR|%44|%22|EVET|%22|%27|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%40|T•K|EVET|%63|%53|DONGU_TERS_YON|FRAGMENTARY_2|
↳ BLOK_TERS>BLOK_DUZ>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%23|EVET|%40|1|EVET|%36|EVET|%30|2|HAYIR|%23|EVET|%56|2|HAYIR|%20|EVET|%32|
↳ 4|HAYIR|%28|EVET|%44|2|HAYIR|%28|EVET|%39|2|HAYIR|%28|EVET|%32|2|HAYIR|%24|EVET|%29|2|HAYIR|%24|EVET|%29|2|HAYIR|%27|EVET|%33|2|HAYIR|%21|EVE
↳ T|%81|2|HAYIR|%15|EVET|%28|2|HAYIR|%11|EVET|%30
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 659 ve sonrası)


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659 658|2026-08-17 18:38:40|1|2/3|EVET|%44|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%33|C•B|EVET|%64|%59|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%59|4|HAYIR|%22|EVET|%33|2|EVET|%37|EVET|%34|4|HAYIR|%22|EVET|%62|3|HAYIR|%20|EVET|%34|2|EVET|%28|EVET|
↳ %32|4|HAYIR|%28|EVET|%39|4|HAYIR|%28|EVET|%29|1|HAYIR|%24|EVET|%32|1|HAYIR|%24|EVET|%28|4|HAYIR|%27|EVET|%33|4|HAYIR|%21|EVET|%77|2|EVET|%15|
↳ EVET|%28|2|EVET|%11|EVET|%30
660 659|2026-08-17 18:38:41|2|4/1|HAYIR|%44|%22|EVET|%22|%48|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%43|C•B|HAYIR|%63|%55|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>BLOK_DUZ>TEPE||HAYIR|%57|4|HAYIR|%22|EVET|%43|1|EVET|%38|EVET|%30|4|HAYIR|%22|EVET|%39|2|HAYIR|%19|EVET|%30|2|HAYIR|%29|EVET|%45|4|HAYIR|
↳ %28|EVET|%36|4|HAYIR|%28|EVET|%30|4|HAYIR|%23|EVET|%28|3|HAYIR|%23|EVET|%27|4|HAYIR|%26|EVET|%29|4|HAYIR|%21|EVET|%55|2|HAYIR|%16|EVET|%28|4|
↳ HAYIR|%12|EVET|%36
661 660|2026-08-17 18:38:42|1|2/3|HAYIR|%45|%22|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%33|T•B|EVET|%63|%52|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ VADI>DONGU|PATTERN_BREAK:0,59|EVET|%60|1|HAYIR|%22|EVET|%33|2|HAYIR|%38|EVET|%30|1|HAYIR|%22|EVET|%33|4|HAYIR|%19|EVET|%46|4|HAYIR|%29|EVET|%
↳ 43|4|HAYIR|%27|EVET|%56|4|HAYIR|%27|EVET|%29|1|HAYIR|%23|EVET|%30|1|HAYIR|%23|EVET|%28|4|HAYIR|%26|EVET|%29|4|HAYIR|%20|EVET|%53|4|HAYIR|%16|
↳ EVET|%25|1|HAYIR|%12|EVET|%35
662 661|2026-08-17 18:38:44|3|4/1|HAYIR|%44|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|C•K|HAYIR|%63|%56|DONGU_YON|FRAGMENTARY_2|DON
↳ GU>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%21|EVET|%31|4|HAYIR|%38|EVET|%30|2|HAYIR|%21|EVET|%37|2|HAYIR|%19|EVET|%32|2|HAYIR|%28|EVE
↳ T|%34|2|HAYIR|%27|EVET|%42|2|HAYIR|%27|EVET|%32|2|HAYIR|%23|EVET|%29|2|HAYIR|%23|EVET|%29|2|HAYIR|%26|EVET|%30|2|HAYIR|%20|EVET|%66|4|HAYIR|%
↳ 16|EVET|%25|4|HAYIR|%12|EVET|%29
663 662|2026-08-17 18:38:45|3|2/3|EVET|%45|%22|HAYIR|%22|%59|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%38|T•K|EVET|%63|%58|TEPE_YON|FRAGMENTARY_2|VADI>DO
↳ NGU_TERS>TEPE||HAYIR|%88|2|EVET|%21|EVET|%38|2|EVET|%37|EVET|%30|4|HAYIR|%21|EVET|%52|1|HAYIR|%18|EVET|%45|2|EVET|%28|EVET|%32|2|EVET|%27|EVE
↳ T|%45|1|HAYIR|%27|EVET|%35|2|EVET|%22|EVET|%34|2|EVET|%22|EVET|%28|2|EVET|%25|EVET|%31|2|EVET|%20|EVET|%93|4|HAYIR|%16|EVET|%25|1|HAYIR|%12|E
↳ VET|%31
664 663|2026-08-17 18:38:46|2|1/4|EVET|%45|%22|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%30|T•B|EVET|%64|%54|VADI_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_2>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%56|3|HAYIR|%22|EVET|%30|1|EVET|%38|EVET|%29|4|HAYIR|%21|EVET|%35|2|HAYIR|%18|EVET|%33|3|HA
↳ YIR|%29|EVET|%42|3|HAYIR|%28|EVET|%57|3|HAYIR|%26|EVET|%29|3|HAYIR|%24|EVET|%32|3|HAYIR|%24|EVET|%27|3|HAYIR|%26|EVET|%31|4|HAYIR|%21|EVET|%5
↳ 7|4|HAYIR|%16|EVET|%25|4|HAYIR|%12|EVET|%29
665 664|2026-08-17 18:38:47|1|2/3|HAYIR|%45|%22|HAYIR|%22|%59|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%37|C•B|EVET|%64|%53|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>DONGU_TERS>VADI||HAYIR|%76|1|HAYIR|%22|EVET|%37|2|HAYIR|%39|EVET|%36|1|HAYIR|%21|EVET|%31|4|EVET|%18|EVET|%29|1|HAYIR|%28|EVET|%44|1|HAY
↳ IR|%27|EVET|%45|4|EVET|%26|EVET|%28|3|HAYIR|%23|EVET|%27|1|HAYIR|%23|EVET|%28|1|HAYIR|%26|EVET|%31|2|HAYIR|%21|EVET|%88|1|HAYIR|%15|EVET|%25|
↳ 1|HAYIR|%11|EVET|%34
666 665|2026-08-17 18:38:48|4|4/3|HAYIR|%45|%22|EVET|%22|%31|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%37|C•B|EVET|%64|%52|DONGU_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%57|4|HAYIR|%22|EVET|%37|1|HAYIR|%38|EVET|%28|4|HAYIR|%20|EVET|%81|4|HAYIR|%19|EVET|%44|4|HAYIR|%28|
↳ EVET|%43|4|HAYIR|%27|EVET|%65|2|HAYIR|%27|EVET|%32|4|HAYIR|%23|EVET|%32|3|EVET|%23|EVET|%27|4|HAYIR|%25|EVET|%39|1|HAYIR|%20|EVET|%54|4|HAYIR
↳ |%15|EVET|%25|2|HAYIR|%11|EVET|%27
667 666|2026-08-17 18:38:51|3|2/3|HAYIR|%45|%22|EVET|%22|%42|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%38|C•B|EVET|%64|%53|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ VADI>DONGU|PATTERN_BREAK:0,59|EVET|%75|2|HAYIR|%21|EVET|%38|2|HAYIR|%38|EVET|%30|2|HAYIR|%20|EVET|%42|4|HAYIR|%19|EVET|%31|2|HAYIR|%28|EVET|%
↳ 29|2|HAYIR|%26|EVET|%38|2|HAYIR|%26|EVET|%32|2|HAYIR|%23|EVET|%33|2|HAYIR|%24|EVET|%29|2|HAYIR|%25|EVET|%33|2|HAYIR|%20|EVET|%65|2|HAYIR|%15|
↳ EVET|%28|2|HAYIR|%11|EVET|%30
668 667|2026-08-17 18:38:52|3|4/1|HAYIR|%45|%22|EVET|%22|%35|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%38|C•B|HAYIR|%64|%52|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%57|1|EVET|%21|EVET|%38|4|HAYIR|%37|EVET|%30|3|HAYIR|%20|EVET|%37|1|EVET|%18|EVET|%34|3|HAYIR|%27|EVET|%43
↳ |1|EVET|%26|EVET|%32|1|EVET|%26|EVET|%32|1|EVET|%22|EVET|%33|2|HAYIR|%24|EVET|%29|1|EVET|%25|EVET|%29|1|EVET|%20|EVET|%86|2|HAYIR|%15|EVET|%2
↳ 8|2|HAYIR|%11|EVET|%32
669 668|2026-08-17 18:38:53|1|2/4|HAYIR|%45|%22|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%33|T•B|EVET|%64|%54|DONGU_YON|FRAGMENTARY_2|DONGU
↳ _TERS>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%65|1|HAYIR|%22|EVET|%33|2|HAYIR|%37|EVET|%29|1|HAYIR|%20|EVET|%41|2|HAYIR|%20|EVET|%32|1|HAYIR|%27
↳ |EVET|%25|2|HAYIR|%27|EVET|%31|4|EVET|%27|EVET|%29|1|HAYIR|%23|EVET|%31|1|HAYIR|%23|EVET|%28|2|HAYIR|%26|EVET|%26|3|HAYIR|%21|EVET|%56|2|HAYI
↳ R|%15|EVET|%28|2|HAYIR|%11|EVET|%32
670 669|2026-08-17 18:38:53|4|4/1|HAYIR|%45|%22|HAYIR|%22|%34|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%38|T•B|EVET|%64|%54|VADI_YON|FRAGMENTARY_2|DONGU_
↳ TERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%56|3|EVET|%22|EVET|%38|4|HAYIR|%37|EVET|%28|3|EVET|%19|EVET|%69|1|HAYIR|%19|EVET|%38|3|EVET|%27|EVET
↳ |%42|3|EVET|%27|EVET|%65|2|HAYIR|%28|EVET|%31|4|HAYIR|%23|EVET|%30|3|EVET|%23|EVET|%28|3|EVET|%25|EVET|%37|3|EVET|%20|EVET|%86|2|HAYIR|%14|EV
↳ ET|%28|3|EVET|%11|EVET|%29
671 670|2026-08-17 18:38:54|3|2/4|EVET|%45|%22|HAYIR|%22|%64|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%26|%38|C•K|EVET|%64|%59|DONGU_YON|FRAGMENTARY_2|VADI>T
↳ EPE>DONGU||HAYIR|%91|2|EVET|%23|EVET|%38|2|EVET|%36|EVET|%31|2|EVET|%20|EVET|%45|2|EVET|%19|EVET|%31|2|EVET|%28|EVET|%43|2|EVET|%28|EVET|%54|
↳ 2|EVET|%28|EVET|%31|2|EVET|%23|EVET|%27|2|EVET|%24|EVET|%28|2|EVET|%26|EVET|%36|2|EVET|%21|EVET|%65|2|EVET|%14|EVET|%28|2|EVET|%12|EVET|%29
672 671|2026-08-17 18:38:55|2|1/4|EVET|%45|%22|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%41|T•K|EVET|%64|%50|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%24|EVET|%41|1|EVET|%37|EVET|%28|2|HAYIR|%21|EVET|%49|2|HAYIR|%20|EVET|%38|2|HAYIR|%
↳ 28|EVET|%44|2|HAYIR|%28|EVET|%71|3|HAYIR|%28|EVET|%29|3|HAYIR|%24|EVET|%31|3|HAYIR|%25|EVET|%27|2|HAYIR|%27|EVET|%36|2|HAYIR|%22|EVET|%35|2|H
↳ AYIR|%15|EVET|%28|4|HAYIR|%13|EVET|%28
673 672|2026-08-17 18:38:55|1|2/3|HAYIR|%45|%22|HAYIR|%22|%57|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%31|T•K|EVET|%64|%51|DONGU_YON|FRAGMENTARY_2|DONG
↳ U>VADI>DONGU||HAYIR|%80|2|HAYIR|%23|EVET|%31|2|HAYIR|%38|EVET|%31|4|HAYIR|%21|EVET|%41|4|HAYIR|%20|EVET|%31|2|HAYIR|%28|EVET|%44|2|HAYIR|%28|
↳ EVET|%49|4|HAYIR|%28|EVET|%30|3|HAYIR|%23|EVET|%27|1|EVET|%25|EVET|%28|2|HAYIR|%27|EVET|%30|2|HAYIR|%22|EVET|%88|2|HAYIR|%15|EVET|%28|1|EVET|
↳ %13|EVET|%33
674 673|2026-08-17 18:38:56|1|1/4|HAYIR|%45|%22|HAYIR|%22|%33|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%29|T•K|EVET|%64|%52|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|DONGU>DONGU>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%51|4|HAYIR|%23|EVET|%29|1|HAYIR|%37|EVET|%39|1|HAYIR|%21|EVET|%39|4|HAYIR
↳ |%20|EVET|%32|4|HAYIR|%28|EVET|%42|1|HAYIR|%28|EVET|%31|4|HAYIR|%28|EVET|%35|1|HAYIR|%23|EVET|%37|1|HAYIR|%25|EVET|%28|4|HAYIR|%27|EVET|%31|4
↳ |HAYIR|%22|EVET|%78|1|HAYIR|%15|EVET|%25|3|EVET|%14|EVET|%28
675 674|2026-08-17 18:39:15|3|3/2|HAYIR|%45|%22|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%29|C•K|EVET|%64|%55|DONGU_YON|FRAGMENTARY_2|TEPE
↳ >DONGU>DONGU|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%44|3|HAYIR|%23|EVET|%29|2|HAYIR|%37|EVET|%29|1|HAYIR|%20|EVET|%34|4|EVET|%19|EVET|%33
↳ |1|HAYIR|%27|EVET|%45|1|HAYIR|%27|EVET|%37|2|HAYIR|%27|EVET|%32|2|HAYIR|%23|EVET|%34|2|HAYIR|%25|EVET|%29|1|HAYIR|%26|EVET|%29|3|HAYIR|%22|EV
↳ ET|%76|1|HAYIR|%15|EVET|%25|4|EVET|%15|EVET|%27
676 675|2026-08-17 18:39:17|4|3/2|HAYIR|%45|%22|EVET|%22|%32|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%40|T•K|EVET|%64|%61|TEPE_YON|FRAGMENTARY_2|VADI>D
↳ ONGU>TEPE|PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%22|EVET|%40|1|HAYIR|%36|EVET|%30|3|HAYIR|%20|EVET|%61|2|EVET|%20|EVET|%35|3|HAYIR|%27|EVET|%43
↳ |3|HAYIR|%27|EVET|%50|3|HAYIR|%27|EVET|%31|3|HAYIR|%22|EVET|%34|3|HAYIR|%25|EVET|%28|3|HAYIR|%26|EVET|%36|3|HAYIR|%21|EVET|%95|1|HAYIR|%14|EV
↳ ET|%25|3|HAYIR|%16|EVET|%31
677 676|2026-08-17 18:39:18|2|3/2|HAYIR|%45|%22|HAYIR|%22|%33|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%38|T•K|HAYIR|%64|%55|VADI_YON|FRAGMENTARY_2|DONG
↳ U_TERS>DONGU>VADI|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%22|EVET|%38|2|HAYIR|%36|EVET|%30|3|HAYIR|%20|EVET|%47|2|HAYIR|%21|EVET|%40|2|HAYIR|%27
↳ |EVET|%31|3|HAYIR|%27|EVET|%36|3|HAYIR|%27|EVET|%28|3|HAYIR|%22|EVET|%33|3|HAYIR|%25|EVET|%26|3|HAYIR|%26|EVET|%31|3|HAYIR|%21|EVET|%83|1|HAY
↳ IR|%14|EVET|%25|3|HAYIR|%15|EVET|%30
678 677|2026-08-17 18:39:19|4|1/4|HAYIR|%45|%22|EVET|%22|%38|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|T•K|HAYIR|%64|%54|VADI_YON|FRAGMENTARY_2|DONGU
↳ >VADI>VADI||HAYIR|%52|2|HAYIR|%22|EVET|%31|1|HAYIR|%35|EVET|%29|4|EVET|%20|EVET|%37|3|HAYIR|%21|EVET|%31|2|HAYIR|%26|EVET|%27|4|EVET|%26|EVET
↳ |%30|2|HAYIR|%26|EVET|%32|2|HAYIR|%22|EVET|%30|3|HAYIR|%24|EVET|%28|3|HAYIR|%25|EVET|%25|1|HAYIR|%21|EVET|%73|4|EVET|%14|EVET|%25|3|HAYIR|%15
↳ |EVET|%28
679 678|2026-08-17 18:39:20|4|2/4|HAYIR|%45|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%45|T•K|EVET|%64|%66|VADI_YON|FRAGMENTARY_2|VADI>
↳ DONGU>VADI|PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%22|EVET|%45|2|HAYIR|%35|EVET|%30|1|HAYIR|%21|EVET|%43|1|HAYIR|%21|EVET|%31|1|HAYIR|%26|EVET|%
↳ 44|1|HAYIR|%27|EVET|%71|1|HAYIR|%26|EVET|%30|2|HAYIR|%22|EVET|%38|3|EVET|%24|EVET|%28|1|HAYIR|%25|EVET|%36|1|HAYIR|%21|EVET|%94|4|HAYIR|%15|E
↳ VET|%25|3|EVET|%15|EVET|%27
680 679|2026-08-17 18:39:21|3|1/4|HAYIR|%45|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%32|T•K|EVET|%64|%52|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%41|2|HAYIR|%21|EVET|%32|1|HAYIR|%35|EVET|%28|1|HAYIR|%20|EVET|%33|4|HAYIR|%20|EVET|%32|3|EVET|%26|EV
↳ ET|%43|3|EVET|%27|EVET|%29|2|HAYIR|%26|EVET|%32|1|HAYIR|%21|EVET|%32|2|HAYIR|%25|EVET|%29|2|HAYIR|%25|EVET|%26|1|HAYIR|%20|EVET|%71|2|HAYIR|%
↳ 15|EVET|%28|2|HAYIR|%16|EVET|%31
681 680|2026-08-17 18:39:21|3|2/1|EVET|%45|%22|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%46|C•K|EVET|%64|%57|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%42|1|HAYIR|%21|EVET|%46|2|EVET|%34|EVET|%32|1|HAYIR|%20|EVET|%41|1|HAYIR|%20|EVET|%34|3|HAYIR|%27|EVE
↳ T|%43|1|HAYIR|%28|EVET|%40|1|HAYIR|%26|EVET|%34|2|EVET|%21|EVET|%30|2|EVET|%25|EVET|%28|1|HAYIR|%25|EVET|%32|1|HAYIR|%20|EVET|%89|2|EVET|%15|
↳ EVET|%28|1|HAYIR|%16|EVET|%32
682 681|2026-08-17 18:39:23|2|4/1|HAYIR|%45|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%32|C•B|EVET|%64|%52|TEPE_YON|FRAGMENTARY_2|VADI>
↳ BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%28|4|HAYIR|%21|EVET|%32|1|HAYIR|%35|EVET|%32|4|HAYIR|%20|EVET|%35|4|HAYIR|%20|EVET|%39|4|HAYIR|%26|EV
↳ ET|%43|4|HAYIR|%27|EVET|%49|4|HAYIR|%25|EVET|%29|3|EVET|%22|EVET|%31|3|EVET|%25|EVET|%26|4|HAYIR|%24|EVET|%34|4|HAYIR|%20|EVET|%56|2|HAYIR|%1
↳ 6|EVET|%28|4|HAYIR|%16|EVET|%28
683 682|2026-08-17 18:39:24|3|2/1|HAYIR|%45|%22|EVET|%22|%42|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%38|T•K|EVET|%64|%55|DONGU_TERS_YON|FRAGMENTARY_2|
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 683 ve sonrası)

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↳ TEPE>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%69|2|HAYIR|%21|EVET|%38|2|HAYIR|%35|EVET|%29|2|HAYIR|%20|EVET|%29|4|HAYIR|%20|EVET|%39|4|HAYIR
↳ |%26|EVET|%35|4|HAYIR|%27|EVET|%42|2|HAYIR|%25|EVET|%32|2|HAYIR|%23|EVET|%33|2|HAYIR|%26|EVET|%29|2|HAYIR|%24|EVET|%31|2|HAYIR|%20|EVET|%92|2
↳ |HAYIR|%15|EVET|%28|2|HAYIR|%15|EVET|%31
684 683|2026-08-17 18:39:24|1|1/4|HAYIR|%45|%22|HAYIR|%22|%50|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%33|T•B|EVET|%64|%55|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>TEPE||HAYIR|%70|2|HAYIR|%21|EVET|%33|1|HAYIR|%34|EVET|%27|2|HAYIR|%20|EVET|%38|1|HAYIR|%20|EVET|%28|4|HAYIR|%26|EVET|%43|2|HAYIR|%27|EVE
↳ T|%36|4|HAYIR|%25|EVET|%30|1|HAYIR|%23|EVET|%37|1|HAYIR|%26|EVET|%28|4|HAYIR|%24|EVET|%27|2|HAYIR|%20|EVET|%51|2|HAYIR|%15|EVET|%28|2|HAYIR|%
↳ 15|EVET|%31
685 684|2026-08-17 18:39:27|3|2/4|HAYIR|%45|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%38|C•K|HAYIR|%64|%54|DONGU_TERS_YON|FRAGMENTARY_
↳ 2|BLOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%53|4|HAYIR|%20|EVET|%38|2|HAYIR|%34|EVET|%35|3|EVET|%19|EVET|%46|4|HAYIR|%19|EVET|%29|4|
↳ HAYIR|%26|EVET|%42|4|HAYIR|%27|EVET|%59|2|HAYIR|%25|EVET|%31|2|HAYIR|%22|EVET|%31|2|HAYIR|%26|EVET|%29|4|HAYIR|%23|EVET|%31|4|HAYIR|%19|EVET|
↳ %98|2|HAYIR|%15|EVET|%28|4|HAYIR|%15|EVET|%29
686 685|2026-08-17 18:39:27|3|1/2|HAYIR|%45|%22|EVET|%22|%32|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%41|T•K|EVET|%64|%58|VADI_YON|FRAGMENTARY_2|VADI>VA
↳ DI>VADI|PATTERN_BREAK:0,59|EVET|%44|2|EVET|%20|EVET|%41|1|HAYIR|%34|EVET|%29|2|EVET|%20|EVET|%45|1|HAYIR|%19|EVET|%37|1|HAYIR|%25|EVET|%30|2|
↳ EVET|%26|EVET|%49|2|EVET|%24|EVET|%32|1|HAYIR|%22|EVET|%31|2|EVET|%25|EVET|%28|2|EVET|%23|EVET|%33|2|EVET|%19|EVET|%95|2|EVET|%15|EVET|%28|2|
↳ EVET|%15|EVET|%33
687 686|2026-08-17 18:39:28|2|3/4|HAYIR|%45|%22|HAYIR|%22|%51|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%31|C•B|EVET|%64|%53|DONGU_TERS_YON|FRAGMENTARY_2
↳ |TEPE>VADI>DONGU_TERS||HAYIR|%47|4|HAYIR|%21|EVET|%31|2|EVET|%33|EVET|%29|2|EVET|%21|EVET|%47|2|EVET|%19|EVET|%30|4|HAYIR|%25|EVET|%42|4|HAYI
↳ R|%27|EVET|%35|3|HAYIR|%25|EVET|%29|3|HAYIR|%22|EVET|%38|3|HAYIR|%26|EVET|%27|4|HAYIR|%24|EVET|%27|3|HAYIR|%20|EVET|%53|4|HAYIR|%16|EVET|%25|
↳ 4|HAYIR|%16|EVET|%27
688 687|2026-08-17 18:39:29|2|1/4|HAYIR|%45|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%34|T•K|EVET|%64|%54|DONGU_TERS_YON|FRAGMENTARY_2|
↳ TEPE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%32|2|EVET|%21|EVET|%34|4|HAYIR|%34|EVET|%28|1|HAYIR|%22|EVET|%55|2|EVET|%20|EVET|%43|4|HAYIR|%2
↳ 5|EVET|%42|4|HAYIR|%27|EVET|%44|3|HAYIR|%25|EVET|%35|3|HAYIR|%22|EVET|%31|3|HAYIR|%26|EVET|%27|1|HAYIR|%24|EVET|%28|2|EVET|%20|EVET|%53|4|HAY
↳ IR|%16|EVET|%25|1|HAYIR|%16|EVET|%28
689 688|2026-08-17 18:39:30|2|2/3|HAYIR|%45|%22|EVET|%22|%33|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%38|T•B|EVET|%64|%56|TEPE_YON|FRAGMENTARY_2|AZALIS
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%52|2|HAYIR|%22|EVET|%38|2|HAYIR|%34|EVET|%31|2|HAYIR|%22|EVET|%36|2|HAYIR|%21|EVET|%39|2|HAYIR|%25|EVET|%
↳ 35|2|HAYIR|%27|EVET|%41|3|EVET|%25|EVET|%45|3|EVET|%22|EVET|%35|3|EVET|%26|EVET|%26|2|HAYIR|%24|EVET|%32|3|EVET|%21|EVET|%56|4|HAYIR|%16|EVET
↳ |%25|2|HAYIR|%16|EVET|%29
690 689|2026-08-17 18:39:32|3|1/2|EVET|%45|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%32|C•K|EVET|%64|%53|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%44|1|EVET|%21|EVET|%32|1|EVET|%33|EVET|%30|1|EVET|%21|EVET|%40|2|HAYIR|%20|EVET|%40|1|EVET|%24|EVET|%42
↳ |1|EVET|%26|EVET|%48|2|HAYIR|%25|EVET|%31|2|HAYIR|%22|EVET|%30|2|HAYIR|%26|EVET|%29|1|EVET|%23|EVET|%32|2|HAYIR|%21|EVET|%64|4|HAYIR|%15|EVET
↳ |%25|2|HAYIR|%15|EVET|%31
691 690|2026-08-17 18:39:33|1|3/2|HAYIR|%45|%22|EVET|%22|%43|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%32|C•K|EVET|%64|%53|TEPE_YON|FRAGMENTARY_2|VADI>DO
↳ NGU_TERS>TEPE||HAYIR|%60|2|EVET|%22|EVET|%32|2|EVET|%34|EVET|%30|2|EVET|%22|EVET|%34|3|HAYIR|%20|EVET|%31|2|EVET|%25|EVET|%32|2|EVET|%27|EVET
↳ |%43|4|HAYIR|%25|EVET|%29|3|HAYIR|%22|EVET|%31|1|HAYIR|%26|EVET|%28|2|EVET|%24|EVET|%29|2|EVET|%21|EVET|%50|1|HAYIR|%15|EVET|%25|2|EVET|%15|E
↳ VET|%30
692 691|2026-08-17 18:39:34|2|4/1|EVET|%45|%22|HAYIR|%22|%35|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%41|T•K|HAYIR|%64|%51|VADI_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%38|4|EVET|%23|EVET|%41|1|HAYIR|%34|EVET|%31|4|EVET|%23|EVET|%44|1|HAYIR|%20|EVET|%34|1|HAYIR|%26|EVET|%
↳ 42|4|EVET|%28|EVET|%40|3|HAYIR|%25|EVET|%29|3|HAYIR|%22|EVET|%37|3|HAYIR|%26|EVET|%27|4|EVET|%25|EVET|%29|4|EVET|%22|EVET|%54|1|HAYIR|%15|EVE
↳ T|%25|4|EVET|%16|EVET|%34
693 692|2026-08-17 18:39:36|4|2/3|EVET|%45|%22|HAYIR|%22|%46|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%26|%39|T•B|HAYIR|%64|%54|VADI_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%58|2|EVET|%24|EVET|%39|2|EVET|%34|EVET|%30|2|EVET|%24|EVET|%63|3|HAYIR|%20|EVET|%34|2|EVET|%25|EVET|%
↳ 32|2|EVET|%28|EVET|%40|2|EVET|%25|EVET|%31|3|HAYIR|%22|EVET|%41|3|HAYIR|%25|EVET|%29|2|EVET|%25|EVET|%36|2|EVET|%23|EVET|%76|2|EVET|%15|EVET|
↳ %28|3|HAYIR|%17|EVET|%27
694 693|2026-08-17 18:39:37|2|4/3|HAYIR|%45|%22|HAYIR|%22|%37|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%34|T•B|HAYIR|%64|%53|TEPE_YON|FRAGMENTARY_2|DONG
↳ U_TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%48|4|HAYIR|%24|EVET|%34|1|HAYIR|%35|EVET|%27|4|HAYIR|%24|EVET|%49|2|EVET|%20|EVET|%33|2|EVET|%26|EV
↳ ET|%33|4|HAYIR|%29|EVET|%46|4|HAYIR|%25|EVET|%29|1|HAYIR|%21|EVET|%31|3|HAYIR|%25|EVET|%27|4|HAYIR|%26|EVET|%33|1|HAYIR|%23|EVET|%89|2|EVET|%
↳ 16|EVET|%28|3|HAYIR|%17|EVET|%29
695 694|2026-08-17 18:39:38|2|1/2|HAYIR|%45|%22|HAYIR|%22|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%40|T•K|EVET|%64|%64|TEPE_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%50|1|HAYIR|%24|EVET|%40|2|HAYIR|%34|EVET|%33|1|HAYIR|%24|EVET|%46|2|HAYIR|%20|EVET|%39|1|HAYIR|%27|E
↳ VET|%42|1|HAYIR|%29|EVET|%68|3|EVET|%25|EVET|%34|2|HAYIR|%21|EVET|%30|3|EVET|%25|EVET|%27|1|HAYIR|%26|EVET|%38|3|EVET|%23|EVET|%64|2|HAYIR|%1
↳ 6|EVET|%28|2|HAYIR|%16|EVET|%28
696 695|2026-08-17 18:39:40|3|2/1|HAYIR|%45|%22|EVET|%22|%49|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%34|T•K|EVET|%64|%56|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>DONGU||HAYIR|%46|2|HAYIR|%24|EVET|%34|4|HAYIR|%34|EVET|%27|1|EVET|%24|EVET|%39|2|HAYIR|%20|EVET|%36|4|HAYIR|%27|EVET|%41|4|HAYIR|%
↳ 28|EVET|%39|2|HAYIR|%26|EVET|%31|2|HAYIR|%21|EVET|%30|2|HAYIR|%26|EVET|%29|4|HAYIR|%26|EVET|%28|2|HAYIR|%24|EVET|%62|2|HAYIR|%16|EVET|%28|1|E
↳ VET|%16|EVET|%32
697 696|2026-08-17 18:39:41|1|2|HAYIR|%45|%22|HAYIR|%22|%80|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%43|C•K|EVET|%64|%61|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>TEPE>VADI||HAYIR|%89|2|HAYIR|%24|EVET|%43|2|HAYIR|%34|EVET|%36|2|HAYIR|%25|EVET|%50|3|HAYIR|%20|EVET|%30|2|HAYIR|%26|EVET|%37|2|HAYIR|%28|
↳ EVET|%52|4|HAYIR|%25|EVET|%29|3|HAYIR|%21|EVET|%31|1|EVET|%25|EVET|%27|2|HAYIR|%25|EVET|%37|2|HAYIR|%24|EVET|%56|2|HAYIR|%16|EVET|%28|2|HAYIR
↳ |%17|EVET|%32
698 697|2026-08-17 18:39:42|1|4/2|HAYIR|%45|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%29|T•B|EVET|%64|%52|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%40|3|HAYIR|%23|EVET|%29|1|EVET|%33|EVET|%32|2|HAYIR|%24|EVET|%33|4|HAYIR|%20|EVET|%30|3|HAYIR|%26|EVE
↳ T|%44|3|HAYIR|%28|EVET|%41|4|HAYIR|%25|EVET|%33|1|EVET|%21|EVET|%36|1|EVET|%26|EVET|%28|3|HAYIR|%25|EVET|%27|3|HAYIR|%23|EVET|%87|2|HAYIR|%16
↳ |EVET|%28|3|HAYIR|%17|EVET|%29
699 698|2026-08-17 18:39:43|1|2/3|HAYIR|%45|%22|EVET|%22|%36|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%34|C•B|EVET|%64|%51|TEPE_YON|FRAGMENTARY_2|VADI>T
↳ EPE>TEPE|PATTERN_BREAK:0,59|EVET|%55|2|HAYIR|%23|EVET|%34|2|HAYIR|%34|EVET|%33|2|HAYIR|%24|EVET|%35|1|HAYIR|%20|EVET|%27|2|HAYIR|%26|EVET|%33
↳ |2|HAYIR|%28|EVET|%50|2|HAYIR|%25|EVET|%34|1|HAYIR|%21|EVET|%31|1|HAYIR|%27|EVET|%29|2|HAYIR|%25|EVET|%32|2|HAYIR|%23|EVET|%85|2|HAYIR|%16|EV
↳ ET|%28|3|EVET|%17|EVET|%29
700 699|2026-08-17 18:39:44|3|4/1|HAYIR|%45|%22|HAYIR|%22|%38|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%32|T•K|EVET|%64|%57|VADI_YON|FRAGMENTARY_2|DONGU
↳ _TERS>VADI>VADI||HAYIR|%43|4|HAYIR|%23|EVET|%32|1|HAYIR|%34|EVET|%28|1|HAYIR|%24|EVET|%42|2|HAYIR|%19|EVET|%34|4|HAYIR|%26|EVET|%40|4|HAYIR|%
↳ 27|EVET|%44|2|HAYIR|%25|EVET|%31|2|HAYIR|%21|EVET|%29|2|HAYIR|%27|EVET|%29|4|HAYIR|%25|EVET|%29|3|EVET|%23|EVET|%69|1|HAYIR|%16|EVET|%25|4|HA
↳ YIR|%18|EVET|%28
701 700|2026-08-17 18:39:45|3|2|HAYIR|%45|%22|HAYIR|%22|%68|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%50|T•K|EVET|%64|%59|TEPE_YON|FRAGMENTARY_2|DONGU_T
↳ ERS>VADI>TEPE||HAYIR|%89|2|HAYIR|%23|EVET|%50|2|HAYIR|%33|EVET|%31|2|HAYIR|%24|EVET|%52|2|HAYIR|%19|EVET|%35|2|HAYIR|%25|EVET|%45|2|HAYIR|%27
↳ |EVET|%57|2|HAYIR|%25|EVET|%35|2|HAYIR|%21|EVET|%35|2|HAYIR|%26|EVET|%28|2|HAYIR|%25|EVET|%42|2|HAYIR|%24|EVET|%95|1|EVET|%16|EVET|%25|2|HAYI
↳ R|%17|EVET|%35
702 701|2026-08-17 18:39:46|1|1/4|HAYIR|%45|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%28|T•B|HAYIR|%64|%55|TEPE_YON|FRAGMENTARY_2|VADI
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%39|1|HAYIR|%23|EVET|%28|1|HAYIR|%33|EVET|%28|4|HAYIR|%23|EVET|%41|2|EVET|%19|EVET|%27|1|HAYIR|%25|EVET|%3
↳ 1|4|HAYIR|%27|EVET|%35|4|HAYIR|%24|EVET|%28|1|HAYIR|%21|EVET|%39|1|HAYIR|%26|EVET|%28|1|HAYIR|%24|EVET|%29|3|HAYIR|%23|EVET|%49|1|HAYIR|%16|E
↳ VET|%25|2|EVET|%17|EVET|%31
703 702|2026-08-17 18:39:46|2|4/3|HAYIR|%45|%22|HAYIR|%22|%36|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%47|C•B|EVET|%64|%55|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%52|4|HAYIR|%22|EVET|%47|2|EVET|%33|EVET|%30|4|HAYIR|%23|EVET|%40|2|EVET|%20|EVET|%35|4|HAYIR|%25|EVET|%33|
↳ 4|HAYIR|%27|EVET|%51|4|HAYIR|%24|EVET|%29|3|HAYIR|%21|EVET|%41|3|HAYIR|%26|EVET|%27|4|HAYIR|%24|EVET|%32|4|HAYIR|%23|EVET|%65|1|HAYIR|%16|EVE
↳ T|%25|4|HAYIR|%18|EVET|%36
704 703|2026-08-17 18:39:48|2|3/1|HAYIR|%45|%22|EVET|%22|%34|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%39|T•B|EVET|%64|%56|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%48|3|HAYIR|%22|EVET|%39|1|EVET|%33|EVET|%31|3|HAYIR|%23|EVET|%47|2|HAYIR|%20|EVET|%41|3|HAYIR|%25|EVE
↳ T|%38|3|HAYIR|%26|EVET|%51|3|HAYIR|%24|EVET|%37|3|HAYIR|%20|EVET|%36|3|HAYIR|%26|EVET|%27|3|HAYIR|%24|EVET|%37|3|HAYIR|%23|EVET|%87|1|EVET|%1
↳ 6|EVET|%25|3|HAYIR|%18|EVET|%30
705 704|2026-08-17 18:39:49|1|3/2|EVET|%45|%22|HAYIR|%22|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|T•B|EVET|%65|%54|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%45|1|HAYIR|%22|EVET|%32|2|HAYIR|%34|EVET|%34|3|EVET|%23|EVET|%34|4|HAYIR|%20|EVET|%37|2|HAYIR|%25|EVET
↳ |%33|1|HAYIR|%26|EVET|%35|2|HAYIR|%24|EVET|%28|3|EVET|%20|EVET|%32|1|HAYIR|%25|EVET|%28|3|EVET|%24|EVET|%28|1|HAYIR|%23|EVET|%58|1|HAYIR|%17|
↳ EVET|%25|1|HAYIR|%18|EVET|%35
706 705|2026-08-17 18:39:51|3|2/4|HAYIR|%45|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%33|C•K|HAYIR|%64|%57|TEPE_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%35|2|HAYIR|%22|EVET|%33|1|HAYIR|%34|EVET|%31|2|HAYIR|%23|EVET|%42|2|HAYIR|%20|EVET|%29|2|HAYIR|%24|EV
↳ ET|%40|2|HAYIR|%26|EVET|%54|2|HAYIR|%23|EVET|%31|2|HAYIR|%21|EVET|%30|2|HAYIR|%25|EVET|%28|2|HAYIR|%24|EVET|%35|2|HAYIR|%23|EVET|%62|2|HAYIR|
↳ %17|EVET|%28|3|EVET|%17|EVET|%28
707 706|2026-08-17 18:39:53|3|2/1|HAYIR|%45|%22|HAYIR|%22|%62|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%49|C•K|HAYIR|%64|%60|VADI_YON|FRAGMENTARY_2|TEPE
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 707 ve sonrası)

```
↳ >TEPE>VADI||HAYIR|%88|2|HAYIR|%22|EVET|%49|2|HAYIR|%33|EVET|%32|2|HAYIR|%23|EVET|%46|1|HAYIR|%20|EVET|%38|3|EVET|%24|EVET|%46|2|HAYIR|%26|EVE
↳ T|%54|2|HAYIR|%23|EVET|%33|2|HAYIR|%21|EVET|%35|2|HAYIR|%25|EVET|%28|2|HAYIR|%24|EVET|%37|2|HAYIR|%22|EVET|%93|2|HAYIR|%16|EVET|%28|2|HAYIR|%
↳ 18|EVET|%34
708 707|2026-08-17 18:39:54|3|1/2|HAYIR|%45|%22|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%41|T•B|HAYIR|%64|%50|VADI_YON|FRAGMENTARY_2|DONGU_
↳ TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%34|2|EVET|%21|EVET|%41|1|HAYIR|%33|EVET|%27|4|HAYIR|%23|EVET|%29|2|EVET|%20|EVET|%43|4|HAYIR|%25|EVET
↳ |%39|4|HAYIR|%26|EVET|%35|2|EVET|%23|EVET|%39|1|HAYIR|%21|EVET|%34|2|EVET|%25|EVET|%28|2|EVET|%24|EVET|%30|2|EVET|%22|EVET|%92|2|EVET|%16|EVE
↳ T|%28|2|EVET|%18|EVET|%33
709 708|2026-08-17 18:39:57|2|3/4|HAYIR|%45|%22|HAYIR|%22|%32|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%32|C•B|EVET|%64|%58|TEPE_YON|FRAGMENTARY_2|VADI>
↳ TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%43|4|HAYIR|%22|EVET|%32|2|EVET|%33|EVET|%32|4|HAYIR|%23|EVET|%42|1|HAYIR|%20|EVET|%38|4|HAYIR|%25|EVET|%39
↳ |4|HAYIR|%25|EVET|%50|3|HAYIR|%24|EVET|%28|3|HAYIR|%20|EVET|%43|3|HAYIR|%25|EVET|%27|4|HAYIR|%25|EVET|%31|3|HAYIR|%23|EVET|%53|2|EVET|%17|EVE
↳ T|%28|4|HAYIR|%19|EVET|%26
710 709|2026-08-17 18:39:59|2|1/3|EVET|%45|%22|HAYIR|%22|%43|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%42|T•K|EVET|%64|%50|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI||HAYIR|%45|2|HAYIR|%22|EVET|%42|1|EVET|%33|EVET|%26|1|EVET|%23|EVET|%34|1|EVET|%20|EVET|%34|2|HAYIR|%24|EVET|%34|2|HAYIR|%25|EVET|%4
↳ 4|3|HAYIR|%23|EVET|%34|3|HAYIR|%20|EVET|%30|3|HAYIR|%25|EVET|%27|2|HAYIR|%24|EVET|%29|2|HAYIR|%23|EVET|%58|2|HAYIR|%18|EVET|%28|3|HAYIR|%19|E
↳ VET|%29
711 710|2026-08-17 18:40:03|1|3/2|HAYIR|%45|%22|HAYIR|%22|%28|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%34|T•B|EVET|%64|%57|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|TEPE>VADI>BLOK_TERS|REGIME_SHIFT:0,75|EVET|%33|3|HAYIR|%22|EVET|%34|2|HAYIR|%34|EVET|%41|2|HAYIR|%23|EVET|%33|4|HAYIR|%21|EVET|%32|2|HAYIR
↳ |%24|EVET|%38|2|HAYIR|%25|EVET|%34|3|HAYIR|%23|EVET|%28|3|HAYIR|%20|EVET|%34|1|EVET|%25|EVET|%28|2|HAYIR|%24|EVET|%30|1|EVET|%22|EVET|%52|2|H
↳ AYIR|%18|EVET|%28|1|EVET|%18|EVET|%34
712 711|2026-08-17 18:40:06|1|1/3|HAYIR|%45|%22|EVET|%22|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%34|T•B|EVET|%64|%54|TEPE_YON|FRAGMENTARY_2|VADI>T
↳ EPE>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%30|4|HAYIR|%21|EVET|%34|1|HAYIR|%34|EVET|%28|4|HAYIR|%23|EVET|%43|4|HAYIR|%21|EVET|%29|4|
↳ HAYIR|%24|EVET|%38|4|HAYIR|%25|EVET|%49|4|HAYIR|%23|EVET|%32|1|HAYIR|%20|EVET|%40|1|HAYIR|%26|EVET|%28|4|HAYIR|%24|EVET|%30|4|HAYIR|%23|EVET|
↳ %70|2|HAYIR|%17|EVET|%28|3|EVET|%19|EVET|%31
713 712|2026-08-17 18:40:08|3|3/4|EVET|%45|%22|HAYIR|%22|%52|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%36|T•B|EVET|%65|%54|VADI_YON|FRAGMENTARY_2|TEPE>TE
↳ PE>VADI||HAYIR|%64|3|EVET|%21|EVET|%36|2|HAYIR|%33|EVET|%32|4|HAYIR|%23|EVET|%39|1|HAYIR|%20|EVET|%29|3|EVET|%24|EVET|%46|3|EVET|%25|EVET|%34
↳ |2|HAYIR|%23|EVET|%31|3|EVET|%20|EVET|%36|2|HAYIR|%25|EVET|%28|3|EVET|%24|EVET|%28|3|EVET|%23|EVET|%76|1|HAYIR|%17|EVET|%25|3|EVET|%20|EVET|%
↳ 31
714 713|2026-08-17 18:40:10|3|2/1|HAYIR|%45|%22|HAYIR|%22|%53|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%44|C•K|EVET|%65|%58|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI||HAYIR|%77|2|HAYIR|%22|EVET|%44|1|HAYIR|%33|EVET|%27|2|HAYIR|%23|EVET|%40|2|HAYIR|%20|EVET|%36|2|HAYIR|%24|EVET|%45|2|HAYIR|%25|EVE
↳ T|%58|2|HAYIR|%23|EVET|%33|1|HAYIR|%20|EVET|%33|2|HAYIR|%25|EVET|%28|2|HAYIR|%24|EVET|%37|2|HAYIR|%24|EVET|%92|1|HAYIR|%17|EVET|%25|2|HAYIR|%
↳ 20|EVET|%35
715 714|2026-08-17 18:40:35|4|2/3|HAYIR|%45|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%31|C•K|HAYIR|%64|%60|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%70|4|HAYIR|%22|EVET|%31|2|HAYIR|%33|EVET|%34|2|HAYIR|%23|EVET|%44|2|HAYIR|%20|EVET|%31|2|HAYIR|%24|EV
↳ ET|%30|4|HAYIR|%25|EVET|%41|2|HAYIR|%23|EVET|%33|2|HAYIR|%20|EVET|%41|3|EVET|%25|EVET|%28|2|HAYIR|%24|EVET|%34|4|HAYIR|%23|EVET|%63|1|HAYIR|%
↳ 17|EVET|%25|2|HAYIR|%20|EVET|%32
716 715|2026-08-17 18:40:37|3|2/3|EVET|%45|%22|HAYIR|%22|%27|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%32|C•B|EVET|%65|%55|TEPE_YON|FRAGMENTARY_2|BLOK_DU
↳ Z>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%42|2|EVET|%22|EVET|%32|1|HAYIR|%33|EVET|%31|4|HAYIR|%22|EVET|%34|2|EVET|%20|EVET|%32|3|HAYIR|%24|EVET|%2
↳ 9|2|EVET|%25|EVET|%29|2|EVET|%22|EVET|%30|3|HAYIR|%20|EVET|%30|2|EVET|%25|EVET|%28|2|EVET|%24|EVET|%26|4|HAYIR|%23|EVET|%67|3|HAYIR|%17|EVET|
↳ %25|2|EVET|%20|EVET|%29
717 716|2026-08-17 18:40:38|2|2/4|EVET|%45|%22|HAYIR|%22|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%30|C•B|EVET|%65|%50|TEPE_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%60|1|HAYIR|%22|EVET|%30|2|EVET|%32|EVET|%33|1|HAYIR|%22|EVET|%38|1|HAYIR|%21|EVET|%31|1|HAYIR|%24|EVET|
↳ %35|1|HAYIR|%25|EVET|%40|4|HAYIR|%23|EVET|%28|3|HAYIR|%20|EVET|%41|3|HAYIR|%26|EVET|%26|1|HAYIR|%25|EVET|%29|1|HAYIR|%23|EVET|%41|3|HAYIR|%17
↳ |EVET|%25|2|EVET|%21|EVET|%26
718 717|2026-08-17 18:40:39|2|1/3|HAYIR|%45|%22|EVET|%23|%56|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%37|T•K|EVET|%65|%56|TEPE_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_2>VADI>TEPE||HAYIR|%86|2|HAYIR|%22|EVET|%37|1|HAYIR|%33|EVET|%31|4|HAYIR|%22|EVET|%35|1|HAYIR|%20|EVET|%34|2|HAYIR|%24|EVET|%31|2|HAY
↳ IR|%25|EVET|%38|1|HAYIR|%23|EVET|%31|3|EVET|%20|EVET|%33|3|EVET|%26|EVET|%26|1|HAYIR|%24|EVET|%30|2|HAYIR|%23|EVET|%48|3|EVET|%17|EVET|%25|1|
↳ HAYIR|%21|EVET|%29
719 718|2026-08-17 18:40:40|3|2/1|HAYIR|%45|%22|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%38|T•K|EVET|%65|%56|TEPE_YON|FRAGMENTARY_2|VADI>
↳ BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%56|1|HAYIR|%22|EVET|%38|2|HAYIR|%33|EVET|%31|1|HAYIR|%22|EVET|%40|2|HAYIR|%20|EVET|%36|4|HAYIR|%23|EV
↳ ET|%38|4|HAYIR|%25|EVET|%37|2|HAYIR|%23|EVET|%32|2|HAYIR|%20|EVET|%38|2|HAYIR|%26|EVET|%28|2|HAYIR|%24|EVET|%29|2|HAYIR|%23|EVET|%58|2|HAYIR|
↳ %17|EVET|%28|1|HAYIR|%21|EVET|%33
720 719|2026-08-17 18:40:41|3|1/2|HAYIR|%45|%22|EVET|%23|%36|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%41|T•K|EVET|%65|%52|DONGU_TERS_YON|FRAGMENTARY_2|V
↳ ADI>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%61|2|EVET|%22|EVET|%41|1|HAYIR|%32|EVET|%27|3|HAYIR|%22|EVET|%37|2|EVET|%20|EVET|%39|2|EVET|%23|
↳ EVET|%33|1|HAYIR|%25|EVET|%39|2|EVET|%22|EVET|%32|2|EVET|%20|EVET|%32|2|EVET|%26|EVET|%28|2|EVET|%24|EVET|%32|1|HAYIR|%22|EVET|%71|2|EVET|%17
↳ |EVET|%28|2|EVET|%21|EVET|%34
721 720|2026-08-17 18:40:42|2|2/4|HAYIR|%45|%22|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%29|T•B|EVET|%65|%52|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DALGA_TEK_SIM_1>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%64|4|HAYIR|%22|EVET|%29|2|HAYIR|%32|EVET|%41|4|HAYIR|%21|EVET|%43|1|EVET|%21|EVET|%
↳ 37|4|HAYIR|%24|EVET|%37|4|HAYIR|%25|EVET|%57|3|HAYIR|%23|EVET|%28|3|HAYIR|%21|EVET|%38|3|HAYIR|%27|EVET|%27|4|HAYIR|%25|EVET|%28|3|HAYIR|%22|
↳ EVET|%52|2|HAYIR|%18|EVET|%28|2|HAYIR|%21|EVET|%28
722 721|2026-08-17 18:40:45|1|1/3|EVET|%45|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%33|T•K|EVET|%65|%51|DONGU_TERS_YON|FRAGMENTARY_2|V
↳ ADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%70|1|EVET|%22|EVET|%33|1|EVET|%32|EVET|%28|4|HAYIR|%21|EVET|%39|4|HAYIR|%21|EVET|%32|1|EVET|%24|
↳ EVET|%30|1|EVET|%24|EVET|%43|3|HAYIR|%23|EVET|%28|1|EVET|%21|EVET|%31|1|EVET|%27|EVET|%28|1|EVET|%24|EVET|%29|2|HAYIR|%22|EVET|%82|2|HAYIR|%1
↳ 8|EVET|%28|1|EVET|%21|EVET|%36
723 722|2026-08-17 18:40:46|1|3/1|HAYIR|%45|%22|HAYIR|%23|%54|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%33|T•B|HAYIR|%65|%57|VADI_YON|FRAGMENTARY_2|VADI
↳ >VADI>VADI||HAYIR|%69|3|HAYIR|%23|EVET|%33|2|EVET|%32|EVET|%32|3|HAYIR|%21|EVET|%32|3|HAYIR|%21|EVET|%29|3|HAYIR|%24|EVET|%47|3|HAYIR|%25|EVE
↳ T|%41|4|HAYIR|%23|EVET|%30|3|HAYIR|%21|EVET|%32|1|HAYIR|%27|EVET|%29|3|HAYIR|%25|EVET|%32|4|HAYIR|%22|EVET|%61|2|EVET|%17|EVET|%28|3|HAYIR|%2
↳ 2|EVET|%32
724 723|2026-08-17 18:40:47|2|4/3|EVET|%45|%22|HAYIR|%22|%31|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%44|T•B|EVET|%65|%59|TEPE_YON|FRAGMENTARY_2|BLOK_DU
↳ Z>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%42|4|EVET|%22|EVET|%44|1|HAYIR|%33|EVET|%29|2|HAYIR|%21|EVET|%40|3|HAYIR|%21|EVET|%35|3|HAYIR|%24|EVET|%
↳ 34|4|EVET|%25|EVET|%37|3|HAYIR|%22|EVET|%28|3|HAYIR|%21|EVET|%44|3|HAYIR|%27|EVET|%27|3|HAYIR|%25|EVET|%30|3|HAYIR|%22|EVET|%91|2|HAYIR|%18|E
↳ VET|%28|4|EVET|%22|EVET|%34
725 724|2026-08-17 18:40:50|4|2/3|HAYIR|%45|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%35|T•B|EVET|%65|%53|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%60|2|HAYIR|%23|EVET|%35|2|HAYIR|%33|EVET|%43|2|HAYIR|%21|EVET|%51|3|EVET|%21|EVET|%30|4|HAYIR|%24|EVET
↳ |%38|4|HAYIR|%25|EVET|%38|2|HAYIR|%22|EVET|%32|3|EVET|%21|EVET|%38|3|EVET|%27|EVET|%29|2|HAYIR|%25|EVET|%32|2|HAYIR|%22|EVET|%82|2|HAYIR|%18|
↳ EVET|%28|2|HAYIR|%22|EVET|%28
726 725|2026-08-17 18:40:51|3|2/3|HAYIR|%45|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%48|C•K|EVET|%65|%50|VADI_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%66|2|HAYIR|%23|EVET|%48|1|EVET|%32|EVET|%31|2|HAYIR|%21|EVET|%62|3|HAYIR|%21|EVET|%36|2|HAYIR|%24|EVE
↳ T|%46|2|HAYIR|%25|EVET|%62|2|HAYIR|%22|EVET|%32|2|HAYIR|%21|EVET|%34|2|HAYIR|%27|EVET|%29|2|HAYIR|%24|EVET|%38|2|HAYIR|%21|EVET|%75|3|HAYIR|%
↳ 18|EVET|%25|2|HAYIR|%22|EVET|%32
727 726|2026-08-17 18:40:54|1|2/1|HAYIR|%45|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%39|C•B|HAYIR|%65|%51|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%57|2|HAYIR|%23|EVET|%39|2|HAYIR|%33|EVET|%41|2|HAYIR|%21|EVET|%51|3|HAYIR|%21|EVET|%41|2|HAYIR|%23|EV
↳ ET|%45|2|HAYIR|%25|EVET|%51|3|HAYIR|%22|EVET|%28|1|EVET|%21|EVET|%31|1|EVET|%27|EVET|%29|2|HAYIR|%24|EVET|%35|4|HAYIR|%21|EVET|%73|3|HAYIR|%1
↳ 8|EVET|%25|2|HAYIR|%22|EVET|%32
728 727|2026-08-17 18:40:55|1|1/3|EVET|%45|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%26|T•B|EVET|%65|%54|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%63|3|HAYIR|%23|EVET|%26|1|EVET|%33|EVET|%32|2|HAYIR|%20|EVET|%33|3|HAYIR|%21|EVET|%32|3|HAYIR|%2
↳ 3|EVET|%34|1|EVET|%25|EVET|%38|4|HAYIR|%22|EVET|%28|1|EVET|%22|EVET|%38|1|EVET|%28|EVET|%29|1|EVET|%24|EVET|%29|3|HAYIR|%21|EVET|%81|1|EVET|%
↳ 17|EVET|%25|3|HAYIR|%22|EVET|%31
729 728|2026-08-17 18:40:57|1|3/1|HAYIR|%45|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%34|C•K|EVET|%65|%52|TEPE_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%48|2|HAYIR|%22|EVET|%34|2|HAYIR|%33|EVET|%40|2|HAYIR|%20|EVET|%30|3|HAYIR|%21|EVET|%36|2|HAYIR|%23|E
↳ VET|%45|2|HAYIR|%25|EVET|%49|3|HAYIR|%22|EVET|%36|3|HAYIR|%22|EVET|%35|1|HAYIR|%28|EVET|%30|2|HAYIR|%25|EVET|%33|2|HAYIR|%21|EVET|%75|1|HAYIR
↳ |%18|EVET|%25|3|HAYIR|%22|EVET|%30
730 729|2026-08-17 18:41:01|4|3/2|HAYIR|%45|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%36|C•K|EVET|%65|%54|TEPE_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%53|3|HAYIR|%22|EVET|%36|1|EVET|%33|EVET|%31|2|HAYIR|%20|EVET|%49|4|HAYIR|%21|EVET|%35|3|HAYIR|%2
↳ 3|EVET|%46|3|HAYIR|%25|EVET|%46|3|HAYIR|%21|EVET|%32|3|HAYIR|%22|EVET|%51|3|HAYIR|%28|EVET|%30|3|HAYIR|%24|EVET|%34|3|HAYIR|%21|EVET|%63|1|EV
↳ ET|%18|EVET|%25|3|HAYIR|%21|EVET|%31
731 730|2026-08-17 18:41:02|1|3/1|EVET|%45|%22|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|C•K|HAYIR|%65|%57|TEPE_YON|FRAGMENTARY_2|BLOK_
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 731 ve sonrası)

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↳ DUZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%50|1|HAYIR|%22|EVET|%32|2|HAYIR|%33|EVET|%39|3|EVET|%20|EVET|%55|3|EVET|%21|EVET|%30|3|EVET|%23|EVET|%
↳ 46|3|EVET|%25|EVET|%50|3|EVET|%21|EVET|%28|1|HAYIR|%22|EVET|%34|1|HAYIR|%28|EVET|%30|3|EVET|%24|EVET|%36|1|HAYIR|%21|EVET|%95|1|HAYIR|%19|EVE
↳ T|%26|1|HAYIR|%21|EVET|%31
732 731|2026-08-17 18:41:02|3|1/4|HAYIR|%45|%22|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%43|T•B|EVET|%65|%53|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI||HAYIR|%48|3|EVET|%22|EVET|%43|1|HAYIR|%33|EVET|%28|1|HAYIR|%20|EVET|%43|2|HAYIR|%21|EVET|%29|3|EVET|%23|EVET|%46|3|EVET|%25|EVET|%5
↳ 1|2|HAYIR|%22|EVET|%31|3|EVET|%22|EVET|%28|2|HAYIR|%27|EVET|%28|3|EVET|%25|EVET|%32|4|HAYIR|%20|EVET|%63|2|HAYIR|%18|EVET|%28|3|EVET|%21|EVET
↳ |%33
733 732|2026-08-17 18:41:04|3|2/1|HAYIR|%45|%22|EVET|%23|%52|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%41|T•K|EVET|%65|%55|VADI_YON|FRAGMENTARY_2|TEPE>VA
↳ DI>VADI||HAYIR|%75|1|EVET|%22|EVET|%41|2|HAYIR|%33|EVET|%37|1|EVET|%20|EVET|%38|2|HAYIR|%21|EVET|%34|1|EVET|%24|EVET|%45|1|EVET|%26|EVET|%67|
↳ 2|HAYIR|%22|EVET|%34|2|HAYIR|%22|EVET|%33|2|HAYIR|%27|EVET|%28|1|EVET|%25|EVET|%36|2|HAYIR|%20|EVET|%92|2|HAYIR|%18|EVET|%28|2|HAYIR|%22|EVET
↳ |%35
734 733|2026-08-17 18:41:05|1|1/4|HAYIR|%45|%22|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%25|%33|C•K|EVET|%65|%52|TEPE_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%41|4|EVET|%23|EVET|%33|1|HAYIR|%33|EVET|%34|4|EVET|%21|EVET|%47|3|HAYIR|%21|EVET|%32|4|EVET|%24|EVET|%3
↳ 7|4|EVET|%26|EVET|%61|3|HAYIR|%22|EVET|%29|1|HAYIR|%22|EVET|%40|1|HAYIR|%27|EVET|%29|4|EVET|%26|EVET|%32|3|HAYIR|%20|EVET|%43|2|HAYIR|%18|EVE
↳ T|%27|2|HAYIR|%22|EVET|%31
735 734|2026-08-17 18:41:06|4|3/2|HAYIR|%45|%22|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%52|C•B|EVET|%65|%53|TEPE_YON|FRAGMENTARY_2|DALGA
↳ _TEK_SIM_1>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%63|3|HAYIR|%23|EVET|%52|2|HAYIR|%32|EVET|%39|3|HAYIR|%21|EVET|%88|4|EVET|%21|EVET|%33|3|HAYIR|%
↳ 25|EVET|%46|3|HAYIR|%27|EVET|%85|3|HAYIR|%21|EVET|%32|3|HAYIR|%22|EVET|%49|3|HAYIR|%27|EVET|%29|3|HAYIR|%26|EVET|%50|3|HAYIR|%20|EVET|%89|2|H
↳ AYIR|%18|EVET|%28|3|HAYIR|%21|EVET|%30
736 735|2026-08-17 18:41:08|4|3/1|HAYIR|%45|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%28|T•K|EVET|%65|%55|TEPE_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%58|3|HAYIR|%23|EVET|%28|1|EVET|%32|EVET|%31|3|HAYIR|%21|EVET|%33|4|HAYIR|%21|EVET|%35|3|HAYIR|%25|EVET|
↳ %34|3|HAYIR|%27|EVET|%36|3|HAYIR|%21|EVET|%28|3|HAYIR|%22|EVET|%35|3|HAYIR|%27|EVET|%29|3|HAYIR|%26|EVET|%30|3|HAYIR|%20|EVET|%53|2|HAYIR|%18
↳ |EVET|%28|3|HAYIR|%21|EVET|%30
737 736|2026-08-17 18:41:09|1|3/2|EVET|%45|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%37|T•B|EVET|%65|%55|VADI_YON|FRAGMENTARY_2|DALGA_
↳ TEK_SIM_1>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%33|4|HAYIR|%23|EVET|%37|2|HAYIR|%33|EVET|%32|4|HAYIR|%21|EVET|%41|3|EVET|%21|EVET|%33|3|EVET|%25
↳ |EVET|%46|3|EVET|%27|EVET|%46|3|EVET|%21|EVET|%29|1|HAYIR|%22|EVET|%35|1|HAYIR|%27|EVET|%29|3|EVET|%26|EVET|%34|4|HAYIR|%20|EVET|%92|2|HAYIR|
↳ %18|EVET|%27|1|HAYIR|%21|EVET|%30
738 737|2026-08-17 18:41:10|3|2/4|HAYIR|%45|%22|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%39|T•B|EVET|%65|%55|DONGU_YON|FRAGMENTARY_2|BLOK
↳ _TERS>TEPE>DONGU||HAYIR|%58|3|HAYIR|%23|EVET|%39|1|EVET|%32|EVET|%35|1|EVET|%21|EVET|%43|2|HAYIR|%22|EVET|%29|1|EVET|%25|EVET|%29|4|HAYIR|%27
↳ |EVET|%30|2|HAYIR|%22|EVET|%30|1|EVET|%22|EVET|%26|2|HAYIR|%26|EVET|%28|1|EVET|%26|EVET|%28|4|HAYIR|%20|EVET|%54|2|HAYIR|%18|EVET|%27|3|HAYIR
↳ |%21|EVET|%34
739 738|2026-08-17 18:41:11|1|2/3|EVET|%46|%22|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%40|T•B|HAYIR|%65|%59|VADI_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%65|2|EVET|%23|EVET|%40|2|EVET|%33|EVET|%32|2|EVET|%22|EVET|%37|3|HAYIR|%22|EVET|%50|2|EVET|%26|EVET|%4
↳ 3|2|EVET|%27|EVET|%58|3|HAYIR|%22|EVET|%30|1|HAYIR|%22|EVET|%34|1|HAYIR|%26|EVET|%29|2|EVET|%27|EVET|%35|3|HAYIR|%20|EVET|%87|1|HAYIR|%18|EVE
↳ T|%26|2|EVET|%21|EVET|%30
740 739|2026-08-17 18:41:13|2|2/3|EVET|%46|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%36|T•K|EVET|%65|%54|VADI_YON|FRAGMENTARY_2|DALGA_T
↳ EK_SIM_1>VADI>VADI|PATTERN_BREAK:0,59|EVET|%48|2|EVET|%23|EVET|%36|1|HAYIR|%33|EVET|%34|2|EVET|%22|EVET|%33|3|HAYIR|%21|EVET|%35|2|EVET|%26|E
↳ VET|%43|2|EVET|%27|EVET|%71|4|HAYIR|%21|EVET|%28|3|HAYIR|%22|EVET|%35|3|HAYIR|%26|EVET|%26|2|EVET|%27|EVET|%34|4|HAYIR|%19|EVET|%56|1|HAYIR|%
↳ 17|EVET|%26|4|HAYIR|%21|EVET|%36
741 740|2026-08-17 18:41:14|2|3/4|HAYIR|%46|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%49|T•B|EVET|%65|%56|TEPE_YON|FRAGMENTARY_2|BLOK_D
↳ UZ>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%63|3|HAYIR|%24|EVET|%49|2|HAYIR|%33|EVET|%38|3|HAYIR|%23|EVET|%51|3|HAYIR|%21|EVET|%38|3|HAYIR|%26|EVET
↳ |%46|3|HAYIR|%28|EVET|%74|3|HAYIR|%21|EVET|%34|3|HAYIR|%22|EVET|%37|3|HAYIR|%26|EVET|%26|3|HAYIR|%28|EVET|%45|3|HAYIR|%19|EVET|%81|1|HAYIR|%1
↳ 7|EVET|%26|3|HAYIR|%21|EVET|%30
742 741|2026-08-17 18:41:14|4|3/1|HAYIR|%46|%22|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%31|T•K|HAYIR|%65|%55|VADI_YON|FRAGMENTARY_2|TEPE
↳ >TEPE>VADI|PATTERN_BREAK:0,59|EVET|%54|2|HAYIR|%24|EVET|%31|1|HAYIR|%33|EVET|%29|4|EVET|%22|EVET|%44|3|HAYIR|%21|EVET|%41|3|HAYIR|%26|EVET|%3
↳ 0|3|HAYIR|%28|EVET|%29|3|HAYIR|%21|EVET|%31|3|HAYIR|%22|EVET|%32|3|HAYIR|%26|EVET|%29|3|HAYIR|%28|EVET|%27|1|HAYIR|%19|EVET|%63|1|HAYIR|%17|E
↳ VET|%25|3|HAYIR|%21|EVET|%29
743 742|2026-08-17 18:41:16|4|3/1|HAYIR|%46|%22|EVET|%23|%31|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%25|%38|T•K|EVET|%65|%68|VADI_YON|FRAGMENTARY_2|TEPE>TE
↳ PE>VADI|PATTERN_BREAK:0,59|EVET|%37|1|EVET|%24|EVET|%38|2|HAYIR|%33|EVET|%30|2|HAYIR|%23|EVET|%31|1|EVET|%21|EVET|%32|1|EVET|%26|EVET|%34|1|E
↳ VET|%27|EVET|%45|1|EVET|%21|EVET|%31|2|HAYIR|%22|EVET|%31|3|HAYIR|%25|EVET|%28|1|EVET|%27|EVET|%31|1|EVET|%19|EVET|%93|1|EVET|%17|EVET|%25|3|
↳ HAYIR|%21|EVET|%28
744 743|2026-08-17 18:41:17|1|4/1|EVET|%46|%22|HAYIR|%23|%57|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%26|%44|T•B|EVET|%65|%57|TEPE_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>TEPE>TEPE||HAYIR|%69|4|EVET|%24|EVET|%44|1|HAYIR|%32|EVET|%34|4|EVET|%23|EVET|%55|3|HAYIR|%21|EVET|%29|4|EVET|%27|EVET|%29|4|EVET|%28|EVET
↳ |%44|3|HAYIR|%21|EVET|%29|1|HAYIR|%21|EVET|%43|1|HAYIR|%25|EVET|%29|4|EVET|%28|EVET|%34|4|EVET|%20|EVET|%89|1|HAYIR|%18|EVET|%26|3|HAYIR|%21|
↳ EVET|%28
745 744|2026-08-17 18:41:18|4|4/1|EVET|%46|%23|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%39|C•K|EVET|%65|%54|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%59|4|EVET|%25|EVET|%39|2|HAYIR|%32|EVET|%39|4|EVET|%23|EVET|%53|3|HAYIR|%21|EVET|%32|4|EVET|%27|EVET|%3
↳ 2|4|EVET|%28|EVET|%55|3|HAYIR|%21|EVET|%31|3|HAYIR|%21|EVET|%37|3|HAYIR|%25|EVET|%28|4|EVET|%28|EVET|%33|4|EVET|%20|EVET|%64|2|HAYIR|%17|EVET
↳ |%28|3|HAYIR|%21|EVET|%28
746 745|2026-08-17 18:41:19|4|3/2|EVET|%46|%23|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%0|T•K|EVET|%65|%0|TEPE_YON|FRAGMENTARY_2|BLOK_DUZ>D
↳ ONGU>TEPE||HAYIR|%0|3|EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|1|HAYIR|%0|E
↳ VET|%0|1|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0
747 746|2026-08-17 18:41:28|3|1/2|HAYIR|%46|%23|EVET|%23|%47|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%26|%36|T•B|HAYIR|%65|%56|TEPE_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>TEPE|PATTERN_BREAK:0,59|EVET|%67|2|EVET|%0|EVET|%36|2|EVET|%0|EVET|%29|1|HAYIR|%0|EVET|%37|4|HAYIR|%0|EVET|%36|1|HAYIR|%0|EVET|%45|1|HAYI
↳ R|%0|EVET|%53|2|EVET|%0|EVET|%30|1|HAYIR|%0|EVET|%32|2|EVET|%0|EVET|%28|1|HAYIR|%0|EVET|%35|1|HAYIR|%0|EVET|%68|2|EVET|%0|EVET|%28|2|EVET|%0|
↳ EVET|%30
748 747|2026-08-17 18:41:28|2|4/2|HAYIR|%46|%23|EVET|%23|%40|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%29|C•B|EVET|%65|%62|TEPE_YON|FRAGMENTARY_2|DONGU_
↳ TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%61|4|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%28|2|EVET|%0|EVET|%38|2|EVET|%0|EVET|%30|4|HAYIR|%0|EVET|%40|
↳ 4|HAYIR|%0|EVET|%56|4|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%26|4|HAYIR|%0|EVET|%32|2|EVET|%0|EVET|%37|2|EVET|%0|EVET|%28|2|E
↳ VET|%0|EVET|%27
749 748|2026-08-17 18:41:29|2|2/3|HAYIR|%46|%23|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%32|T•K|EVET|%65|%55|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|VADI>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%44|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%33|3|HAYIR|%0|EVET|%28|1|EVET|%0|EV
↳ ET|%29|1|EVET|%0|EVET|%28|2|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%31|1|EVET|%0|EVET|%28|2|HAYIR|%0|EVET|%25|2|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|
↳ %48|2|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%29
750 749|2026-08-17 18:41:30|1|1/2|HAYIR|%46|%23|EVET|%23|%43|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%43|T•B|HAYIR|%65|%54|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|DALGA_TEK_SIM_2>VADI>BLOK_TERS|PATTERN_BREAK:0,59|EVET|%73|1|HAYIR|%0|EVET|%43|1|HAYIR|%0|EVET|%38|1|HAYIR|%0|EVET|%39|4|HAYIR|%0|EVET|%37
↳ |1|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%43|3|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%38|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%60|
↳ 1|HAYIR|%0|EVET|%26|1|HAYIR|%0|EVET|%37
751 750|2026-08-17 18:41:31|2|2/4|HAYIR|%46|%22|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%26|%38|C•B|EVET|%65|%65|TEPE_YON|FRAGMENTARY_2|VADI>VA
↳ DI>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%39|4|EVET|%40|EVET|%38|2|HAYIR|%20|EVET|%32|4|EVET|%40|EVET|%45|3|HAYIR|%60|EVET|%35|2|HAY
↳ IR|%40|EVET|%44|2|HAYIR|%20|EVET|%35|4|EVET|%20|EVET|%28|2|HAYIR|%20|EVET|%35|2|HAYIR|%40|EVET|%25|3|HAYIR|%20|EVET|%27|3|HAYIR|%40|EVET|%96|
↳ 1|HAYIR|%40|EVET|%26|4|EVET|%40|EVET|%35
752 751|2026-08-17 18:41:32|4|2/3|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%35|T•B|EVET|%65|%58|VADI_YON|FRAGMENTARY_2|VADI>
↳ TEPE>VADI|PATTERN_BREAK:0,59|EVET|%54|2|HAYIR|%50|EVET|%35|1|EVET|%16|EVET|%27|2|HAYIR|%50|EVET|%48|3|HAYIR|%50|EVET|%34|1|EVET|%33|EVET|%45|
↳ 1|EVET|%16|EVET|%45|3|HAYIR|%33|EVET|%31|2|HAYIR|%16|EVET|%29|3|HAYIR|%33|EVET|%27|2|HAYIR|%16|EVET|%29|2|HAYIR|%33|EVET|%78|1|EVET|%33|EVET|
↳ %25|3|HAYIR|%50|EVET|%27
753 752|2026-08-17 18:41:36|1|1/4|HAYIR|%46|%22|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%36|C•K|EVET|%65|%52|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DALGA_TEK_SIM_3>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%71|1|HAYIR|%42|EVET|%36|2|EVET|%28|EVET|%31|1|HAYIR|%42|EVET|%59|3|HAYIR|%42|EVET|%
↳ 37|1|HAYIR|%42|EVET|%45|1|HAYIR|%28|EVET|%65|3|HAYIR|%28|EVET|%28|1|HAYIR|%14|EVET|%27|1|HAYIR|%28|EVET|%28|1|HAYIR|%14|EVET|%37|4|HAYIR|%28|
↳ EVET|%75|1|HAYIR|%42|EVET|%26|4|HAYIR|%42|EVET|%30
754 753|2026-08-17 18:41:37|2|4/3|HAYIR|%46|%23|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%0|C•B|HAYIR|%65|%0|VADI_YON|FRAGMENTARY_2|VADI>TE
↳ PE>VADI|PATTERN_BREAK:0,59|EVET|%0|4|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0|4|HAYIR|%0|EV
↳ ET|%0|4|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|EVET|%0|EVET|%0|4|HAYIR|%0|EVET|%0
755 754|2026-08-17 18:42:24|1|1/3|HAYIR|%46|%22|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%31|T•B|EVET|%65|%56|DONGU_TERS_YON|FRAGMENTARY_2
↳ |DONGU_TERS>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%29|1|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%28|4|EVET|%0|EVET|%41|4|EVET
↳ |%0|EVET|%30|4|EVET|%0|EVET|%37|2|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%27|4|EVET|%0|EVET|%53|2|HAYIR|%0|
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 755 ve sonrası)

```
EVET|%28|1|HAYIR|%0|EVET|%36
755|2026-08-17 18:42:27|4|1/4|EVET|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%31|C•K|EVET|%65|%57|VADI_YON|FRAGMENTARY_2|DONGU_
TERS>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%66|4|HAYIR|%0|EVET|%31|1|EVET|%0|EVET|%28|1|EVET|%0|EVET|%31|4|HAYIR|%0|EVET|%39|1|EVET|%0|EVET|%37|1
|EVET|%0|EVET|%33|3|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%27|1|EVET|%0|EVET|%29|1|EVET|%0|EVET|%54|2|HAYIR|%0|EVET|%28|4|HAY
IR|%0|EVET|%28
756|2026-08-17 18:42:28|1|1/2|HAYIR|%46|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%34|T•K|EVET|%65|%54|TEPE_YON|FRAGMENTARY_2|VADI>
BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%66|1|HAYIR|%0|EVET|%34|2|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%48|3|EVET|%0|EVET|%35|1|HAYIR|%0|EVET|%46
|1|HAYIR|%0|EVET|%59|2|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%37|1|HAYIR|%0|EVET|%93|1|HAYIR|%0|EVET|%26|
4|HAYIR|%0|EVET|%31
757|2026-08-17 18:42:29|3|3/1|HAYIR|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%47|T•B|HAYIR|%65|%55|TEPE_YON|FRAGMENTARY_2|BLOK
_DUZ>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%60|3|HAYIR|%0|EVET|%47|1|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%49|2|EVET|%0|EVET|%29|3|HAYIR|%0|EVE
T|%35|3|HAYIR|%0|EVET|%45|2|EVET|%0|EVET|%31|4|HAYIR|%0|EVET|%33|2|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%50|1|HAYIR|%0|EVET|%
25|3|HAYIR|%0|EVET|%33
758|2026-08-17 18:42:32|2|2/1|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%34|C•B|EVET|%65|%52|DONGU_YON|FRAGMENTARY_2|BLOK
_DUZ>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%48|1|HAYIR|%0|EVET|%34|2|HAYIR|%40|EVET|%32|1|HAYIR|%20|EVET|%41|2|HAYIR|%80|EVET|%36|1|HAYIR|%40|EV
ET|%33|1|HAYIR|%40|EVET|%39|4|EVET|%20|EVET|%29|2|HAYIR|%0|EVET|%29|4|EVET|%20|EVET|%25|1|HAYIR|%40|EVET|%30|3|HAYIR|%40|EVET|%49|1|HAYIR|%20
|EVET|%26|2|HAYIR|%0|EVET|%29
759|2026-08-17 18:42:33|4|1/2|HAYIR|%46|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%27|T•K|EVET|%65|%53|DONGU_YON|FRAGMENTARY_2|TEPE
>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%62|1|HAYIR|%0|EVET|%27|1|HAYIR|%33|EVET|%29|4|HAYIR|%16|EVET|%34|4|HAYIR|%66|EVET|%27|1|HAYIR|%33|EVET|%
30|1|HAYIR|%33|EVET|%30|3|EVET|%33|EVET|%29|2|HAYIR|%0|EVET|%29|3|EVET|%33|EVET|%27|1|HAYIR|%33|EVET|%27|1|HAYIR|%33|EVET|%43|1|HAYIR|%16|EVE
T|%25|1|HAYIR|%0|EVET|%27
760|2026-08-17 18:42:34|3|2/1|HAYIR|%46|%22|EVET|%23|%42|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%40|T•K|EVET|%65|%58|VADI_YON|FRAGMENTARY_2|VADI>D
ONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%69|2|HAYIR|%0|EVET|%40|2|HAYIR|%28|EVET|%31|2|HAYIR|%14|EVET|%46|4|HAYIR|%57|EVET|%31|2|HAYIR|%28|EVE
T|%31|2|HAYIR|%28|EVET|%41|2|HAYIR|%42|EVET|%32|2|HAYIR|%0|EVET|%36|2|HAYIR|%42|EVET|%29|2|HAYIR|%28|EVET|%34|2|HAYIR|%28|EVET|%67|1|EVET|%14
|EVET|%25|2|HAYIR|%0|EVET|%33
761|2026-08-17 18:42:37|1|4/1|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%33|T•B|EVET|%66|%54|DONGU_YON|FRAGMENTARY_2|VADI
>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%42|2|HAYIR|%0|EVET|%33|1|HAYIR|%25|EVET|%30|1|HAYIR|%12|EVET|%35|3|EVET|%50|EVET|%40|4|HAYIR|%25|EVET|%4
0|4|HAYIR|%25|EVET|%41|3|EVET|%37|EVET|%28|4|HAYIR|%0|EVET|%31|1|HAYIR|%37|EVET|%27|4|HAYIR|%25|EVET|%28|4|HAYIR|%25|EVET|%66|1|HAYIR|%25|EVE
T|%26|2|HAYIR|%0|EVET|%32
762|2026-08-17 18:42:39|3|4/3|HAYIR|%46|%22|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%39|T•B|EVET|%66|%58|DONGU_YON|FRAGMENTARY_2|TEPE>D
ONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%29|3|EVET|%0|EVET|%39|2|HAYIR|%22|EVET|%28|3|EVET|%11|EVET|%47|2|HAYIR|%55|EVET|%27|4|HAYIR|%22|EVET
|%40|4|HAYIR|%22|EVET|%55|2|HAYIR|%44|EVET|%31|2|HAYIR|%0|EVET|%30|2|HAYIR|%33|EVET|%29|4|HAYIR|%22|EVET|%31|4|HAYIR|%22|EVET|%97|2|HAYIR|%22
|EVET|%28|3|EVET|%0|EVET|%32
763|2026-08-17 18:42:39|3|2/1|EVET|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%26|%44|C•K|EVET|%66|%64|DONGU_TERS_YON|FRAGMENTARY_2|B
LOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%64|2|EVET|%10|EVET|%44|1|HAYIR|%20|EVET|%33|2|EVET|%20|EVET|%37|2|EVET|%50|EVET|%32|2|EVET|
%20|EVET|%35|2|EVET|%20|EVET|%53|2|EVET|%40|EVET|%32|1|HAYIR|%0|EVET|%42|2|EVET|%30|EVET|%28|2|EVET|%20|EVET|%34|2|EVET|%20|EVET|%89|2|EVET|%
20|EVET|%28|2|EVET|%10|EVET|%34
764|2026-08-17 18:42:42|2|2/4|HAYIR|%46|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%33|T•K|HAYIR|%66|%50|DONGU_TERS_YON|FRAGMENTARY_2
|BLOK_TERS>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%48|2|HAYIR|%18|EVET|%33|2|HAYIR|%18|EVET|%32|2|HAYIR|%27|EVET|%46|1|HAYIR|%54|EVET|%29|2|
HAYIR|%27|EVET|%31|2|HAYIR|%27|EVET|%33|4|EVET|%45|EVET|%29|3|HAYIR|%0|EVET|%30|4|EVET|%36|EVET|%26|2|HAYIR|%27|EVET|%30|3|HAYIR|%27|EVET|%51
|2|HAYIR|%27|EVET|%27|2|HAYIR|%18|EVET|%28
765|2026-08-17 18:42:43|4|3/2|HAYIR|%46|%22|HAYIR|%23|%46|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%29|T•K|EVET|%66|%55|TEPE_YON|FRAGMENTARY_2|BLOK_
TERS>TEPE>TEPE||HAYIR|%61|2|HAYIR|%16|EVET|%29|1|EVET|%16|EVET|%32|3|HAYIR|%25|EVET|%39|4|HAYIR|%50|EVET|%29|2|HAYIR|%25|EVET|%44|2|HAYIR|%25
|EVET|%40|3|HAYIR|%50|EVET|%31|2|HAYIR|%0|EVET|%26|3|HAYIR|%41|EVET|%28|2|HAYIR|%25|EVET|%27|1|EVET|%25|EVET|%38|2|HAYIR|%25|EVET|%28|3|HAYIR
|%16|EVET|%28
766|2026-08-17 18:42:45|1|3/4|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%26|%38|T•K|EVET|%66|%58|VADI_YON|FRAGMENTARY_2|VADI>
DONGU>VADI|PATTERN_BREAK:0,59|EVET|%35|4|HAYIR|%15|EVET|%38|2|EVET|%23|EVET|%29|4|HAYIR|%23|EVET|%44|1|HAYIR|%46|EVET|%28|3|HAYIR|%23|EVET|%2
7|4|HAYIR|%23|EVET|%35|3|HAYIR|%46|EVET|%29|4|HAYIR|%0|EVET|%33|1|HAYIR|%38|EVET|%27|4|HAYIR|%23|EVET|%29|4|HAYIR|%30|EVET|%79|2|EVET|%23|EVE
T|%27|4|HAYIR|%15|EVET|%30
767|2026-08-17 18:42:46|2|1/4|HAYIR|%46|%22|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%41|C•K|EVET|%66|%59|VADI_YON|FRAGMENTARY_2|VADI>DO
NGU>VADI|PATTERN_BREAK:0,59|EVET|%37|4|EVET|%14|EVET|%41|1|HAYIR|%28|EVET|%30|1|HAYIR|%21|EVET|%65|1|HAYIR|%42|EVET|%38|4|EVET|%21|EVET|%40|4
|EVET|%21|EVET|%54|4|EVET|%42|EVET|%30|4|EVET|%0|EVET|%30|4|EVET|%35|EVET|%27|4|EVET|%21|EVET|%32|4|EVET|%28|EVET|%98|2|HAYIR|%28|EVET|%28|4|
EVET|%14|EVET|%40
768|2026-08-17 18:42:47|4|2/3|HAYIR|%46|%22|HAYIR|%23|%36|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%31|T•K|HAYIR|%66|%58|DONGU_YON|FRAGMENTARY_2|TEP
E>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%45|3|HAYIR|%20|EVET|%31|2|HAYIR|%26|EVET|%29|2|HAYIR|%20|EVET|%35|3|HAYIR|%40|EVET|%31|3|HAYIR|%26|EVET
|%44|3|HAYIR|%26|EVET|%40|3|HAYIR|%46|EVET|%30|2|HAYIR|%6|EVET|%29|3|HAYIR|%40|EVET|%27|3|HAYIR|%26|EVET|%33|2|HAYIR|%33|EVET|%69|2|HAYIR|%26
|EVET|%28|1|HAYIR|%20|EVET|%28
769|2026-08-17 18:42:49|4|1/3|EVET|%46|%22|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%43|T•K|EVET|%66|%58|VADI_YON|FRAGMENTARY_2|TEPE>DO
NGU>VADI|PATTERN_BREAK:0,59|EVET|%44|1|EVET|%18|EVET|%43|1|EVET|%25|EVET|%28|3|HAYIR|%18|EVET|%34|1|EVET|%37|EVET|%40|1|EVET|%25|EVET|%45|1|E
VET|%25|EVET|%58|1|EVET|%43|EVET|%32|1|EVET|%6|EVET|%38|3|HAYIR|%37|EVET|%27|1|EVET|%25|EVET|%37|1|EVET|%31|EVET|%94|1|EVET|%25|EVET|%25|1|EV
ET|%18|EVET|%28
770|2026-08-17 18:42:51|1|4/3|EVET|%46|%22|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%26|%42|T•B|EVET|%66|%52|DONGU_TERS_YON|FRAGMENTARY_2|V
ADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%31|4|EVET|%23|EVET|%42|2|HAYIR|%29|EVET|%31|4|EVET|%17|EVET|%64|3|HAYIR|%41|EVET|%28|1|HAYIR|%2
9|EVET|%45|4|EVET|%29|EVET|%46|3|HAYIR|%47|EVET|%28|4|EVET|%11|EVET|%30|1|HAYIR|%35|EVET|%27|4|EVET|%29|EVET|%30|4|EVET|%35|EVET|%92|1|HAYIR|
%29|EVET|%26|4|EVET|%23|EVET|%28
771|2026-08-17 18:42:51|4|4/3|HAYIR|%46|%22|EVET|%23|%39|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%46|C•B|EVET|%66|%57|DONGU_TERS_YON|FRAGMENTARY_2|
ARTIS>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%55|4|HAYIR|%27|EVET|%46|1|HAYIR|%27|EVET|%30|4|HAYIR|%22|EVET|%70|3|EVET|%38|EVET|%31|4|
HAYIR|%27|EVET|%42|4|HAYIR|%33|EVET|%67|3|EVET|%44|EVET|%30|4|HAYIR|%16|EVET|%39|3|EVET|%33|EVET|%27|4|HAYIR|%33|EVET|%39|4|HAYIR|%38|EVET|%6
8|1|HAYIR|%27|EVET|%25|4|HAYIR|%27|EVET|%28
772|2026-08-17 18:42:52|3|2/1|HAYIR|%46|%22|EVET|%23|%43|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%36|T•K|EVET|%66|%53|DONGU_TERS_YON|FRAGMENTARY_2|
TEPE>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%70|2|HAYIR|%26|EVET|%36|2|HAYIR|%26|EVET|%29|2|HAYIR|%21|EVET|%44|3|HAYIR|%42|EVET|%33|1|
EVET|%26|EVET|%45|2|HAYIR|%31|EVET|%35|2|HAYIR|%47|EVET|%31|2|HAYIR|%15|EVET|%31|2|HAYIR|%36|EVET|%29|2|HAYIR|%31|EVET|%31|2|HAYIR|%36|EVET|%
70|1|EVET|%26|EVET|%25|2|HAYIR|%26|EVET|%32
773|2026-08-17 18:42:53|1|4/1|HAYIR|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%27|C•B|EVET|%66|%55|DONGU_TERS_YON|FRAGMENTARY_2
|DONGU_TERS>TEPE>DONGU_TERS||HAYIR|%47|2|HAYIR|%25|EVET|%27|1|HAYIR|%25|EVET|%30|4|HAYIR|%20|EVET|%33|3|EVET|%40|EVET|%44|4|HAYIR|%30|EVET|%4
2|4|HAYIR|%30|EVET|%46|3|EVET|%45|EVET|%28|4|HAYIR|%15|EVET|%31|1|HAYIR|%35|EVET|%26|4|HAYIR|%30|EVET|%32|4|HAYIR|%35|EVET|%63|1|HAYIR|%30|EV
ET|%26|2|HAYIR|%25|EVET|%31
774|2026-08-17 18:42:54|3|4/3|HAYIR|%46|%22|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%49|T•B|EVET|%66|%54|DONGU_TERS_YON|FRAGMENTARY_2
|VADI>VADI>DONGU_TERS||HAYIR|%45|3|HAYIR|%23|EVET|%49|2|HAYIR|%23|EVET|%30|3|HAYIR|%19|EVET|%62|3|HAYIR|%42|EVET|%30|3|HAYIR|%28|EVET|%32|4|H
AYIR|%28|EVET|%44|2|HAYIR|%47|EVET|%31|4|HAYIR|%14|EVET|%27|2|HAYIR|%33|EVET|%29|3|HAYIR|%28|EVET|%33|4|HAYIR|%33|EVET|%94|1|EVET|%28|EVET|%2
5|3|HAYIR|%23|EVET|%34
775|2026-08-17 18:42:55|1|3/2|HAYIR|%46|%22|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%0|T•K|HAYIR|%66|%0|DONGU_YON|FRAGMENTARY_2|DONGU>
VADI>DONGU|PATTERN_BREAK:0,59|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|
%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|
%0
776|2026-08-17 18:43:53|4|3/2|HAYIR|%46|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%33|C•K|EVET|%66|%53|DONGU_YON|FRAGMENTARY_2|DONGU
>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%51|3|HAYIR|%0|EVET|%33|2|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%48|2|EVET|%0|EVET|%26|3|HAYIR|%0|EVET|%30|3|
HAYIR|%0|EVET|%38|3|HAYIR|%0|EVET|%31|3|HAYIR|%0|EVET|%37|3|HAYIR|%0|EVET|%27|3|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%87|2|EVET|%0|EVET|%28|3|HA
YIR|%0|EVET|%30
777|2026-08-17 18:43:54|2|1/3|HAYIR|%46|%22|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%36|T•K|HAYIR|%66|%56|DONGU_YON|FRAGMENTARY_2|TEP
E>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%28|3|HAYIR|%0|EVET|%36|1|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%45|2|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%33|
1|HAYIR|%0|EVET|%35|4|EVET|%0|EVET|%31|1|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%28|1|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%50|2|HAYIR|%0|EVET|%27|4|E
VET|%0|EVET|%28
778|2026-08-17 18:43:59|4|3/2|HAYIR|%46|%22|EVET|%23|%25|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%26|T•K|EVET|%66|%54|DONGU_YON|FRAGMENTARY_2|VADI>
DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%26|1|HAYIR|%0|EVET|%26|2|EVET|%0|EVET|%29|4|HAYIR|%0|EVET|%47|4|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%
45|1|HAYIR|%0|EVET|%42|3|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%67|2|EVET|%0|EVET|%28
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 779 ve sonrası)

```
↳ |1|HAYIR|%0|EVET|%28
780 779|2026-08-17 18:44:00|2|1/3|HAYIR|%46|%22|EVET|%23|%28|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%31|T•B|EVET|%66|%63|DONGU_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%0|EVET|%31|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%42|3|EVET|%0|EVET|%29|1|HAYIR|%0|EVET|%
↳ 32|4|HAYIR|%0|EVET|%34|4|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%27|4|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%87|2|HAYIR|%0|EVET|%2
↳ 7|4|HAYIR|%0|EVET|%28
781 780|2026-08-17 18:44:05|3|2/1|EVET|%46|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%37|T•K|EVET|%66|%59|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%49|1|HAYIR|%0|EVET|%37|2|EVET|%40|EVET|%29|3|HAYIR|%0|EVET|%32|1|HAYIR|%40|EVET|%28|1|HAYIR|%0|EVET
↳ |%28|1|HAYIR|%0|EVET|%38|1|HAYIR|%20|EVET|%31|2|EVET|%0|EVET|%27|2|EVET|%20|EVET|%28|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%88|2|EVET|%40|EVET|
↳ %28|1|HAYIR|%20|EVET|%32
782 781|2026-08-17 18:44:06|2|1/3|HAYIR|%46|%22|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%26|%33|C•B|EVET|%66|%61|DONGU_YON|FRAGMENTARY_2|VADI>
↳ DONGU_TERS>DONGU|PATTERN_BREAK:0,59|EVET|%35|4|EVET|%0|EVET|%33|1|HAYIR|%50|EVET|%28|4|EVET|%0|EVET|%33|1|HAYIR|%33|EVET|%27|4|EVET|%0|EVET|%
↳ 42|4|EVET|%0|EVET|%51|4|EVET|%16|EVET|%32|4|EVET|%16|EVET|%30|4|EVET|%33|EVET|%28|4|EVET|%0|EVET|%31|3|HAYIR|%0|EVET|%52|2|HAYIR|%50|EVET|%27
↳ |4|EVET|%16|EVET|%29
783 782|2026-08-17 18:44:08|4|2/1|EVET|%46|%22|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%29|T•K|EVET|%66|%60|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>DONGU||HAYIR|%50|1|HAYIR|%14|EVET|%29|2|EVET|%42|EVET|%31|4|HAYIR|%14|EVET|%41|4|HAYIR|%28|EVET|%34|1|HAYIR|%14|EVET|%44|1|HAYIR|%
↳ 14|EVET|%40|3|HAYIR|%28|EVET|%30|3|HAYIR|%28|EVET|%29|3|HAYIR|%42|EVET|%27|1|HAYIR|%14|EVET|%27|1|HAYIR|%0|EVET|%49|2|EVET|%42|EVET|%28|1|HAY
↳ IR|%28|EVET|%28
784 783|2026-08-17 18:44:12|2|1/3|EVET|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%37|T•B|EVET|%66|%59|DONGU_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>DONGU||HAYIR|%61|3|HAYIR|%12|EVET|%37|1|EVET|%50|EVET|%27|3|HAYIR|%12|EVET|%39|3|HAYIR|%25|EVET|%27|3|HAYIR|%12|EVET|%43|3|HAYIR|%12|EV
↳ ET|%37|4|HAYIR|%25|EVET|%33|1|EVET|%25|EVET|%28|4|HAYIR|%37|EVET|%29|3|HAYIR|%12|EVET|%30|1|EVET|%0|EVET|%87|1|EVET|%50|EVET|%25|4|HAYIR|%25|
↳ EVET|%28
785 784|2026-08-17 18:44:15|1|3/4|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|C•K|EVET|%66|%51|DONGU_YON|FRAGMENTARY_2|VADI
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%11|EVET|%32|2|EVET|%55|EVET|%33|2|EVET|%11|EVET|%46|4|HAYIR|%22|EVET|%37|3|HAYIR|%11|EVET|%
↳ 43|3|HAYIR|%11|EVET|%40|3|HAYIR|%22|EVET|%28|4|HAYIR|%33|EVET|%33|3|HAYIR|%33|EVET|%26|2|EVET|%11|EVET|%28|1|HAYIR|%11|EVET|%48|1|HAYIR|%55|E
↳ VET|%25|1|HAYIR|%22|EVET|%35
786 785|2026-08-17 18:44:18|2|1/3|HAYIR|%46|%22|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%49|C•B|EVET|%66|%52|DONGU_YON|FRAGMENTARY_2|BLOK
↳ _DUZ>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%60|4|HAYIR|%10|EVET|%49|1|HAYIR|%60|EVET|%32|4|HAYIR|%20|EVET|%41|1|HAYIR|%20|EVET|%36|3|HAYIR|%10|
↳ EVET|%30|3|HAYIR|%10|EVET|%46|4|HAYIR|%20|EVET|%32|4|HAYIR|%30|EVET|%29|4|HAYIR|%30|EVET|%28|4|HAYIR|%20|EVET|%33|3|HAYIR|%10|EVET|%93|1|HAYI
↳ R|%50|EVET|%25|4|HAYIR|%20|EVET|%40
787 786|2026-08-17 18:44:20|2|3/4|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%35|T•B|HAYIR|%66|%52|DONGU_YON|FRAGMENTARY_2|TEP
↳ E>DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%43|1|HAYIR|%9|EVET|%35|2|EVET|%54|EVET|%33|4|HAYIR|%18|EVET|%27|1|HAYIR|%18|EVET|%36|1|HAYIR|%9|EVET|%
↳ 44|1|HAYIR|%9|EVET|%40|1|HAYIR|%18|EVET|%30|2|EVET|%27|EVET|%28|4|HAYIR|%27|EVET|%28|1|HAYIR|%18|EVET|%30|3|HAYIR|%9|EVET|%81|1|HAYIR|%45|EVE
↳ T|%25|1|HAYIR|%18|EVET|%29
788 787|2026-08-17 18:44:21|2|1/3|HAYIR|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|T•B|EVET|%66|%54|DONGU_YON|FRAGMENTARY_2|VADI
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%71|1|HAYIR|%8|EVET|%32|1|HAYIR|%58|EVET|%28|1|HAYIR|%16|EVET|%29|3|HAYIR|%16|EVET|%35|3|HAYIR|%8|EVET|%
↳ 29|3|HAYIR|%8|EVET|%34|3|HAYIR|%16|EVET|%46|1|HAYIR|%33|EVET|%32|4|EVET|%25|EVET|%28|3|HAYIR|%16|EVET|%29|3|HAYIR|%8|EVET|%67|1|HAYIR|%41|EVE
↳ T|%25|1|HAYIR|%16|EVET|%28
789 788|2026-08-17 18:44:28|4|2/3|HAYIR|%46|%22|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%32|T•K|EVET|%66|%64|DONGU_YON|FRAGMENTARY_2|VADI
↳ >DONGU>DONGU|PATTERN_BREAK:0,59|EVET|%64|2|HAYIR|%7|EVET|%32|2|HAYIR|%53|EVET|%36|4|HAYIR|%15|EVET|%50|3|HAYIR|%15|EVET|%40|2|HAYIR|%7|EVET|%
↳ 46|2|HAYIR|%7|EVET|%32|2|HAYIR|%15|EVET|%31|2|HAYIR|%30|EVET|%28|3|HAYIR|%30|EVET|%27|2|HAYIR|%15|EVET|%30|1|EVET|%7|EVET|%63|1|EVET|%38|EVET
↳ |%25|1|EVET|%15|EVET|%27
790 789|2026-08-17 18:44:30|1|2/1|HAYIR|%46|%22|EVET|%23|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%37|C•K|EVET|%66|%55|VADI_YON|FRAGMENTARY_2|TEPE>D
↳ ONGU>VADI|PATTERN_BREAK:0,59|EVET|%45|4|HAYIR|%7|EVET|%37|1|EVET|%50|EVET|%28|2|HAYIR|%14|EVET|%50|3|HAYIR|%14|EVET|%32|2|HAYIR|%7|EVET|%33|4
↳ |HAYIR|%7|EVET|%38|2|HAYIR|%14|EVET|%28|4|HAYIR|%28|EVET|%32|3|HAYIR|%28|EVET|%26|4|HAYIR|%14|EVET|%29|4|HAYIR|%14|EVET|%78|2|HAYIR|%42|EVET|
↳ %28|4|HAYIR|%21|EVET|%31
791 790|2026-08-17 18:44:31|1|2/3|HAYIR|%46|%22|EVET|%23|%41|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%27|C•K|HAYIR|%66|%58|DONGU_TERS_YON|FRAGMENTARY_2
↳ |VADI>DONGU>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%68|1|HAYIR|%6|EVET|%27|2|HAYIR|%53|EVET|%34|1|HAYIR|%13|EVET|%37|3|EVET|%13|EVET|%36|3|EVET|%
↳ 6|EVET|%29|3|EVET|%6|EVET|%31|4|HAYIR|%13|EVET|%28|2|HAYIR|%26|EVET|%30|1|HAYIR|%26|EVET|%26|2|HAYIR|%13|EVET|%28|2|HAYIR|%13|EVET|%68|2|HAYI
↳ R|%40|EVET|%27|3|EVET|%20|EVET|%30
792 791|2026-08-17 18:44:34|3|4/1|EVET|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%40|T•B|EVET|%66|%57|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
↳ |DONGU>DONGU>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%56|3|HAYIR|%6|EVET|%40|1|HAYIR|%50|EVET|%29|3|HAYIR|%12|EVET|%42|1|HAYIR|%18
↳ |EVET|%26|1|HAYIR|%12|EVET|%32|3|HAYIR|%12|EVET|%38|2|HAYIR|%12|EVET|%32|1|HAYIR|%25|EVET|%37|2|HAYIR|%25|EVET|%28|3|HAYIR|%12|EVET|%29|3|HAY
↳ IR|%12|EVET|%80|2|HAYIR|%37|EVET|%28|3|HAYIR|%25|EVET|%33
793 792|2026-08-17 18:44:36|4|2/1|HAYIR|%46|%22|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%0|T•B|EVET|%66|%0|VADI_YON|FRAGMENTARY_2|DONGU>DO
↳ NGU>VADI|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|HAYIR|%0|
↳ EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|3|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|2|H
↳ AYIR|%0|EVET|%0
794 793|2026-08-17 18:44:41|3|1/4|HAYIR|%46|%22|HAYIR|%23|%48|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%33|C•B|EVET|%66|%60|TEPE_YON|FRAGMENTARY_2|DONGU
↳ >DONGU>TEPE||HAYIR|%61|2|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%28|1|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%3
↳ 0|2|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%35|2|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|%29|4|HAYIR|%0|EVET|%61|2|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|%30
795 794|2026-08-17 18:44:42|3|2/3|HAYIR|%46|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%44|T•B|EVET|%66|%54|TEPE_YON|FRAGMENTARY_2|DONGU>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%56|1|HAYIR|%0|EVET|%44|2|HAYIR|%0|EVET|%32|1|HAYIR|%0|EVET|%34|2|HAYIR|%0|EVET|%44|1|HAYIR|%0|EVET|%44|1|
↳ HAYIR|%0|EVET|%63|2|HAYIR|%0|EVET|%34|2|HAYIR|%0|EVET|%36|2|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%83|1|HAYIR|%0|EVET|%25|2|H
↳ AYIR|%0|EVET|%34
796 795|2026-08-17 18:44:43|3|1/4|HAYIR|%46|%22|EVET|%23|%36|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%51|T•K|HAYIR|%66|%64|VADI_YON|FRAGMENTARY_2|DONGU
↳ >DONGU>VADI|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%0|EVET|%51|1|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%49|2|HAYIR|%0|EVET|%27|2
↳ |HAYIR|%0|EVET|%44|2|HAYIR|%0|EVET|%46|1|HAYIR|%0|EVET|%38|2|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%94|1|HAYIR|%0|EVET|%25|2|
↳ HAYIR|%0|EVET|%33
797 796|2026-08-17 18:44:44|4|2/3|EVET|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%39|T•K|EVET|%66|%57|TEPE_YON|FRAGMENTARY_2|DONGU_
↳ TERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%67|3|HAYIR|%0|EVET|%39|2|EVET|%0|EVET|%31|2|EVET|%0|EVET|%53|1|HAYIR|%0|EVET|%34|2|EVET|%0|EVET|%44|
↳ 2|EVET|%0|EVET|%37|3|HAYIR|%0|EVET|%30|2|EVET|%0|EVET|%27|3|HAYIR|%0|EVET|%26|2|EVET|%0|EVET|%34|2|EVET|%0|EVET|%57|1|HAYIR|%0|EVET|%25|2|EVE
↳ T|%0|EVET|%35
798 797|2026-08-17 18:44:46|2|4/1|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%32|T•K|EVET|%66|%53|TEPE_YON|FRAGMENTARY_2|DONGU_
↳ TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%47|3|EVET|%0|EVET|%32|1|HAYIR|%20|EVET|%27|3|EVET|%20|EVET|%50|1|HAYIR|%0|EVET|%33|2|HAYIR|%20|EVET|%
↳ 44|2|HAYIR|%40|EVET|%34|4|HAYIR|%0|EVET|%32|4|HAYIR|%20|EVET|%30|4|HAYIR|%20|EVET|%28|2|HAYIR|%20|EVET|%27|3|EVET|%40|EVET|%77|1|HAYIR|%0|EVE
↳ T|%25|4|HAYIR|%20|EVET|%27
799 798|2026-08-17 18:44:47|3|2/3|HAYIR|%46|%22|EVET|%24|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%39|T•K|EVET|%66|%58|DONGU_TERS_YON|FRAGMENTARY_2|
↳ DONGU>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%58|1|HAYIR|%16|EVET|%39|2|HAYIR|%16|EVET|%32|1|HAYIR|%33|EVET|%56|1|HAYIR|%0|EVET|%30|1|
↳ HAYIR|%16|EVET|%33|1|HAYIR|%33|EVET|%46|2|HAYIR|%0|EVET|%31|2|HAYIR|%16|EVET|%34|2|HAYIR|%16|EVET|%27|1|HAYIR|%16|EVET|%33|1|HAYIR|%50|EVET|%
↳ 88|1|HAYIR|%0|EVET|%25|1|HAYIR|%16|EVET|%32
800 799|2026-08-17 18:44:49|3|4/3|HAYIR|%46|%22|HAYIR|%24|%31|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%41|T•K|EVET|%66|%60|VADI_YON|FRAGMENTARY_2|DONGU
↳ >BLOK_DUZ>VADI|PATTERN_BREAK:0,59|EVET|%49|2|HAYIR|%14|EVET|%41|4|HAYIR|%14|EVET|%34|4|HAYIR|%28|EVET|%31|1|EVET|%0|EVET|%34|4|HAYIR|%14|EVET
↳ |%42|2|HAYIR|%28|EVET|%33|2|HAYIR|%0|EVET|%34|1|EVET|%14|EVET|%35|2|HAYIR|%14|EVET|%26|1|EVET|%14|EVET|%29|1|EVET|%42|EVET|%57|1|EVET|%0|EVET
↳ |%25|2|HAYIR|%14|EVET|%32
801 800|2026-08-17 18:44:50|1|2/4|EVET|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%30|T•B|HAYIR|%66|%54|TEPE_YON|FRAGMENTARY_2|TEPE>V
↳ ADI>TEPE|PATTERN_BREAK:0,59|EVET|%48|2|EVET|%12|EVET|%30|2|EVET|%12|EVET|%32|4|HAYIR|%25|EVET|%46|1|HAYIR|%12|EVET|%28|3|HAYIR|%12|EVET|%32|2
↳ |EVET|%25|EVET|%37|3|HAYIR|%0|EVET|%29|3|HAYIR|%25|EVET|%28|3|HAYIR|%12|EVET|%26|2|EVET|%25|EVET|%28|4|HAYIR|%50|EVET|%37|2|EVET|%12|EVET|%27
↳ |2|EVET|%12|EVET|%32
802 801|2026-08-17 18:44:51|2|4/1|HAYIR|%46|%22|EVET|%24|%32|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%41|C•K|EVET|%66|%53|DONGU_YON|FRAGMENTARY_2|VADI>
↳ TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%46|4|HAYIR|%22|EVET|%41|1|EVET|%22|EVET|%29|2|HAYIR|%22|EVET|%31|3|HAYIR|%11|EVET|%32|4|HAYIR|%11|EVET|%4
↳ 1|4|HAYIR|%33|EVET|%51|4|HAYIR|%0|EVET|%31|4|HAYIR|%22|EVET|%30|4|HAYIR|%11|EVET|%28|4|HAYIR|%33|EVET|%32|4|HAYIR|%44|EVET|%46|2|HAYIR|%22|EV
↳ ET|%28|4|HAYIR|%22|EVET|%39
803 802|2026-08-17 18:44:53|1|2/3|HAYIR|%46|%22|HAYIR|%24|%36|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%31|C•B|HAYIR|%66|%54|TEPE_YON|FRAGMENTARY_2|VADI
↳ >TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%58|3|HAYIR|%20|EVET|%31|2|HAYIR|%30|EVET|%33|3|HAYIR|%20|EVET|%36|4|HAYIR|%10|EVET|%37|4|HAYIR|%10|EVET|%
↳ 41|4|HAYIR|%30|EVET|%58|2|HAYIR|%0|EVET|%28|2|HAYIR|%20|EVET|%32|3|HAYIR|%10|EVET|%26|4|HAYIR|%30|EVET|%31|4|HAYIR|%40|EVET|%53|2|HAYIR|%20|E
↳ VET|%28|1|EVET|%20|EVET|%33
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 804 ve sonrası)

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804 803|2026-08-17 18:44:54|1|1/4|EVET|%46|%22|HAYIR|%24|%33|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%29|T•B|EVET|%66|%62|DONGU_TERS_YON|FRAGMENTARY_2|
↳ BLOK_DUZ>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%45|4|HAYIR|%18|EVET|%29|1|EVET|%27|EVET|%30|1|EVET|%18|EVET|%43|4|HAYIR|%9|EVET|%31|4|HAYIR
↳ |%9|EVET|%41|4|HAYIR|%27|EVET|%44|3|HAYIR|%0|EVET|%31|1|EVET|%18|EVET|%28|1|EVET|%9|EVET|%26|4|HAYIR|%27|EVET|%30|4|HAYIR|%36|EVET|%60|2|HAYI
↳ R|%18|EVET|%28|3|HAYIR|%27|EVET|%32
805 804|2026-08-17 18:44:55|1|3/2|EVET|%46|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%25|%30|T•B|EVET|%66|%54|TEPE_YON|FRAGMENTARY_2|BLOK_DU
↳ Z>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%57|3|EVET|%16|EVET|%30|2|HAYIR|%33|EVET|%32|1|HAYIR|%25|EVET|%35|3|EVET|%8|EVET|%29|3|EVET|%8|EVET|%44|3
↳ |EVET|%25|EVET|%53|3|EVET|%0|EVET|%32|1|HAYIR|%25|EVET|%28|1|HAYIR|%16|EVET|%27|3|EVET|%25|EVET|%30|2|HAYIR|%33|EVET|%75|2|HAYIR|%16|EVET|%27
↳ |3|EVET|%25|EVET|%31
806 805|2026-08-17 18:45:02|3|4/1|HAYIR|%46|%22|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%38|C•K|EVET|%66|%57|VADI_YON|FRAGMENTARY_2|TEPE>
↳ TEPE>VADI||HAYIR|%55|3|HAYIR|%23|EVET|%38|1|HAYIR|%30|EVET|%30|4|HAYIR|%23|EVET|%39|2|EVET|%15|EVET|%27|1|HAYIR|%15|EVET|%29|3|HAYIR|%30|EVET
↳ |%36|2|EVET|%7|EVET|%30|1|HAYIR|%23|EVET|%29|1|HAYIR|%15|EVET|%27|3|HAYIR|%30|EVET|%27|3|HAYIR|%30|EVET|%73|2|EVET|%15|EVET|%28|3|HAYIR|%30|E
↳ VET|%32
807 806|2026-08-17 18:45:05|2|2/3|HAYIR|%46|%22|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%31|C•K|EVET|%66|%59|VADI_YON|FRAGMENTARY_2|TEPE>
↳ DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%45|4|HAYIR|%21|EVET|%31|2|HAYIR|%28|EVET|%40|4|HAYIR|%21|EVET|%46|2|HAYIR|%21|EVET|%30|3|HAYIR|%14|E
↳ VET|%44|1|EVET|%28|EVET|%31|4|HAYIR|%14|EVET|%30|3|HAYIR|%21|EVET|%32|4|HAYIR|%14|EVET|%28|3|HAYIR|%28|EVET|%26|3|HAYIR|%28|EVET|%49|2|HAYIR|
↳ %21|EVET|%28|4|HAYIR|%28|EVET|%31
808 807|2026-08-17 18:45:09|1|1/3|EVET|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%25|%35|C•K|EVET|%66|%50|DONGU_YON|FRAGMENTARY_2|VADI>V
↳ ADI>DONGU|PATTERN_BREAK:0,59|EVET|%70|1|EVET|%20|EVET|%35|1|EVET|%26|EVET|%28|1|EVET|%20|EVET|%45|4|HAYIR|%20|EVET|%31|1|EVET|%13|EVET|%33|1|
↳ EVET|%33|EVET|%43|2|HAYIR|%13|EVET|%28|3|HAYIR|%20|EVET|%29|1|EVET|%13|EVET|%27|1|EVET|%26|EVET|%32|2|HAYIR|%26|EVET|%73|1|EVET|%20|EVET|%26|
↳ 1|EVET|%26|EVET|%36
809 808|2026-08-17 18:45:17|1|1/3|HAYIR|%46|%22|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%32|T•B|HAYIR|%66|%60|DONGU_YON|FRAGMENTARY_2|BLO
↳ K_DUZ>TEPE>DONGU||HAYIR|%49|1|HAYIR|%25|EVET|%32|2|EVET|%31|EVET|%33|1|HAYIR|%25|EVET|%32|3|HAYIR|%18|EVET|%30|1|HAYIR|%18|EVET|%46|1|HAYIR|%
↳ 37|EVET|%46|3|HAYIR|%12|EVET|%31|3|HAYIR|%18|EVET|%29|1|HAYIR|%18|EVET|%28|1|HAYIR|%31|EVET|%32|4|HAYIR|%25|EVET|%59|1|HAYIR|%25|EVET|%26|3|H
↳ AYIR|%31|EVET|%33
810 809|2026-08-17 18:45:25|2|4/1|HAYIR|%46|%22|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%51|C•B|EVET|%66|%57|TEPE_YON|FRAGMENTARY_2|TEPE>
↳ DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%47|4|HAYIR|%23|EVET|%51|1|HAYIR|%35|EVET|%29|4|HAYIR|%23|EVET|%47|1|HAYIR|%17|EVET|%31|4|HAYIR|%17|EVET|%
↳ 40|4|HAYIR|%35|EVET|%66|4|HAYIR|%11|EVET|%30|3|HAYIR|%17|EVET|%31|4|HAYIR|%17|EVET|%27|4|HAYIR|%29|EVET|%38|3|HAYIR|%23|EVET|%87|1|HAYIR|%23|
↳ EVET|%26|4|HAYIR|%29|EVET|%37
811 810|2026-08-17 18:46:33|2|2/3|HAYIR|%46|%22|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%0|T•B|HAYIR|%66|%0|DONGU_TERS_YON|FRAGMENTARY_2|TE
↳ PE>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%0|2|EVET|%0|EVET|%0|2|EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|
↳ EVET|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|4|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%0|
↳ EVET|%0
812 811|2026-08-17 19:03:12|2|3/1|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%25|%27|C•B|EVET|%66|%54|TEPE_YON|FRAGMENTARY_2|BLOK_T
↳ ERS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%46|2|EVET|%0|EVET|%27|1|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVE
↳ T|%43|3|HAYIR|%0|EVET|%40|3|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%33|4|HAYIR|%0|EVET|%25|3|HAYIR|%0|EVET|%29|3|HAYIR|%0|EVET|%47|2|EVET|%0|EVET|
↳ %29|1|HAYIR|%0|EVET|%27
813 812|2026-08-17 19:03:13|2|2/1|EVET|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|T•B|HAYIR|%66|%59|VADI_YON|FRAGMENTARY_2|BLOK_
↳ DUZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%38|1|HAYIR|%0|EVET|%36|2|EVET|%0|EVET|%34|3|HAYIR|%0|EVET|%30|1|HAYIR|%0|EVET|%33|1|HAYIR|%0|EVET|%45|
↳ 1|HAYIR|%0|EVET|%50|1|HAYIR|%0|EVET|%51|2|EVET|%0|EVET|%37|4|HAYIR|%0|EVET|%25|1|HAYIR|%0|EVET|%35|1|HAYIR|%0|EVET|%68|2|EVET|%0|EVET|%29|2|E
↳ VET|%0|EVET|%27
814 813|2026-08-17 19:03:14|2|1/2|HAYIR|%46|%22|HAYIR|%23|%44|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%36|T•K|HAYIR|%66|%56|VADI_YON|FRAGMENTARY_2|TEPE
↳ >VADI>VADI||HAYIR|%55|1|HAYIR|%0|EVET|%36|1|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%45|1|HAYIR|%0|EVET|%50
↳ |4|EVET|%0|EVET|%32|2|HAYIR|%0|EVET|%33|4|EVET|%0|EVET|%25|1|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%61|2|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%28
815 814|2026-08-17 19:03:16|4|2/3|HAYIR|%46|%22|EVET|%23|%33|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%35|T•K|EVET|%66|%58|BLOK_DUZ_TEKRAR|FRAGMENTARY_2
↳ |DONGU_TERS>VADI>BLOK_DUZ|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%54|1|HAYIR|%0|EVET|%35|2|HAYIR|%0|EVET|%35|1|HAYIR|%0|EVET|%35|3|EVET|%0
↳ |EVET|%43|2|HAYIR|%0|EVET|%34|1|HAYIR|%0|EVET|%42|2|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%39|3|EVET|%0|EVET|%28|1|HAYIR|%0|EVET|%29|1|HAYIR|%0|E
↳ VET|%45|2|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%26
816 815|2026-08-17 19:03:17|3|1/2|HAYIR|%46|%22|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%36|T•K|EVET|%66|%55|TEPE_YON|FRAGMENTARY_2|VADI>DO
↳ NGU>TEPE|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%40|2|EVET|%40|EVET|%36|1|HAYIR|%40|EVET|%29|2|EVET|%0|EVET|%58|3|HAYIR|%20|EVET|%41|2|EVE
↳ T|%0|EVET|%34|2|EVET|%20|EVET|%37|2|EVET|%20|EVET|%31|1|HAYIR|%20|EVET|%34|2|EVET|%40|EVET|%29|2|EVET|%0|EVET|%34|1|HAYIR|%0|EVET|%44|2|EVET|
↳ %40|EVET|%28|2|EVET|%20|EVET|%30
817 816|2026-08-17 19:03:19|2|2/3|EVET|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%30|C•K|EVET|%66|%55|TEPE_YON|FRAGMENTARY_2|TEPE>DO
↳ NGU>TEPE|PATTERN_BREAK:0,59|EVET|%28|2|EVET|%50|EVET|%30|2|EVET|%33|EVET|%42|2|EVET|%16|EVET|%64|2|EVET|%16|EVET|%29|3|HAYIR|%16|EVET|%43|2|E
↳ VET|%33|EVET|%32|4|HAYIR|%33|EVET|%30|2|EVET|%16|EVET|%39|4|HAYIR|%50|EVET|%26|2|EVET|%16|EVET|%32|2|EVET|%0|EVET|%52|1|HAYIR|%50|EVET|%27|4|
↳ HAYIR|%33|EVET|%29
818 817|2026-08-17 19:03:21|2|1/2|HAYIR|%46|%22|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%26|%38|C•K|EVET|%66|%52|TEPE_YON|FRAGMENTARY_2|VADI>TE
↳ PE>TEPE|PATTERN_BREAK:0,59|EVET|%33|2|EVET|%57|EVET|%38|1|HAYIR|%42|EVET|%29|3|HAYIR|%28|EVET|%40|2|EVET|%28|EVET|%34|2|EVET|%14|EVET|%35|2|E
↳ VET|%42|EVET|%36|1|HAYIR|%28|EVET|%31|2|EVET|%28|EVET|%30|4|HAYIR|%42|EVET|%25|2|EVET|%28|EVET|%29|2|EVET|%14|EVET|%39|1|HAYIR|%42|EVET|%27|2
↳ |EVET|%28|EVET|%28
819 818|2026-08-17 19:03:22|2|2/3|HAYIR|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%43|T•B|EVET|%66|%51|TEPE_YON|FRAGMENTARY_2|DONGU
↳ _TERS>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%56|2|HAYIR|%62|EVET|%43|2|HAYIR|%37|EVET|%43|4|HAYIR|%25|EVET|%35|2|HAYIR|%37|EVET|%37|3|HAYIR
↳ |%25|EVET|%42|3|HAYIR|%50|EVET|%40|3|HAYIR|%25|EVET|%33|2|HAYIR|%37|EVET|%40|2|HAYIR|%37|EVET|%25|2|HAYIR|%37|EVET|%33|3|HAYIR|%25|EVET|%40|1
↳ |EVET|%37|EVET|%27|2|HAYIR|%37|EVET|%29
820 819|2026-08-17 19:03:23|1|1/3|HAYIR|%46|%22|EVET|%24|%36|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%34|C•B|EVET|%66|%53|TEPE_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>TEPE|PATTERN_BREAK:0,59|EVET|%52|1|HAYIR|%55|EVET|%34|1|HAYIR|%33|EVET|%28|1|HAYIR|%22|EVET|%35|2|HAYIR|%33|EVET|%35|3|EVET|%22|EVET|%36|
↳ 3|EVET|%44|EVET|%47|2|HAYIR|%22|EVET|%29|2|HAYIR|%33|EVET|%34|1|HAYIR|%33|EVET|%28|3|EVET|%33|EVET|%28|1|HAYIR|%22|EVET|%39|1|HAYIR|%44|EVET|
↳ %27|1|HAYIR|%33|EVET|%36
821 820|2026-08-17 19:03:25|3|2/3|HAYIR|%46|%22|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%35|C•B|HAYIR|%66|%53|TEPE_YON|FRAGMENTARY_2|BLOK
↳ _TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%49|3|HAYIR|%50|EVET|%35|2|HAYIR|%30|EVET|%43|2|HAYIR|%20|EVET|%38|2|HAYIR|%30|EVET|%30|2|HAYIR|%30|E
↳ VET|%39|2|HAYIR|%50|EVET|%52|2|HAYIR|%20|EVET|%32|2|HAYIR|%30|EVET|%37|2|HAYIR|%30|EVET|%29|2|HAYIR|%40|EVET|%37|3|HAYIR|%20|EVET|%40|1|EVET|
↳ %40|EVET|%27|3|HAYIR|%30|EVET|%28
822 821|2026-08-17 19:03:27|1|2/1|HAYIR|%46|%22|HAYIR|%23|%24|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%30|T•K|EVET|%66|%53|BLOK_TERS_TEKRAR|FRAGMENTARY
↳ _2|BLOK_DUZ>VADI>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%21|2|HAYIR|%45|EVET|%30|1|HAYIR|%27|EVET|%33|4|HAYIR|%18|EVET|%38|3|EVE
↳ T|%27|EVET|%32|3|EVET|%27|EVET|%29|3|EVET|%45|EVET|%34|3|EVET|%18|EVET|%28|1|HAYIR|%27|EVET|%34|1|HAYIR|%27|EVET|%27|2|HAYIR|%36|EVET|%27|3|E
↳ VET|%18|EVET|%39|1|HAYIR|%45|EVET|%27|2|HAYIR|%27|EVET|%31
823 822|2026-08-17 19:03:34|3|3/4|EVET|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%41|C•B|EVET|%66|%53|DONGU_TERS_YON|FRAGMENTARY_2|T
↳ EPE>BLOK_DUZ>DONGU_TERS|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%36|3|EVET|%41|EVET|%41|2|HAYIR|%25|EVET|%42|3|EVET|%16|EVET|%39|4|HAYIR|%3
↳ 3|EVET|%27|2|HAYIR|%33|EVET|%28|4|HAYIR|%50|EVET|%40|2|HAYIR|%25|EVET|%32|2|HAYIR|%25|EVET|%34|2|HAYIR|%25|EVET|%29|3|EVET|%33|EVET|%29|4|HAY
↳ IR|%25|EVET|%45|1|HAYIR|%41|EVET|%27|3|EVET|%25|EVET|%28
824 823|2026-08-17 19:04:05|3|1/2|EVET|%46|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%42|T•K|EVET|%66|%57|VADI_YON|FRAGMENTARY_2|TEPE>T
↳ EPE>VADI|PATTERN_BREAK:0,59|EVET|%47|2|HAYIR|%46|EVET|%42|1|EVET|%23|EVET|%29|2|HAYIR|%23|EVET|%40|2|HAYIR|%30|EVET|%36|1|EVET|%30|EVET|%44|1
↳ |EVET|%46|EVET|%46|1|EVET|%23|EVET|%33|1|EVET|%23|EVET|%37|2|HAYIR|%23|EVET|%29|1|EVET|%38|EVET|%34|2|HAYIR|%23|EVET|%62|2|HAYIR|%38|EVET|%28
↳ |2|HAYIR|%30|EVET|%33
825 824|2026-08-17 19:05:26|1|1|HAYIR|%46|%22|HAYIR|%23|%65|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%30|T•B|EVET|%66|%53|VADI_YON|FRAGMENTARY_2|BLOK_TE
↳ RS>TEPE>VADI||HAYIR|%71|1|HAYIR|%42|EVET|%30|2|HAYIR|%28|EVET|%35|1|HAYIR|%21|EVET|%36|2|HAYIR|%28|EVET|%27|1|HAYIR|%35|EVET|%45|1|HAYIR|%50|
↳ EVET|%54|3|HAYIR|%28|EVET|%30|3|HAYIR|%28|EVET|%32|1|HAYIR|%21|EVET|%27|1|HAYIR|%42|EVET|%32|2|HAYIR|%21|EVET|%55|2|HAYIR|%35|EVET|%28|2|HAYI
↳ R|%28|EVET|%31
826 825|2026-08-17 19:06:47|4|3/4|HAYIR|%46|%22|HAYIR|%23|%45|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%33|C•B|HAYIR|%66|%54|VADI_YON|FRAGMENTARY_2|DALG
↳ A_TEK_SIM_1>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%65|3|HAYIR|%40|EVET|%33|1|EVET|%26|EVET|%32|3|HAYIR|%20|EVET|%42|4|HAYIR|%26|EVET|%32|3|HAYIR|
↳ %33|EVET|%31|3|HAYIR|%46|EVET|%51|3|HAYIR|%26|EVET|%31|3|HAYIR|%26|EVET|%31|3|HAYIR|%20|EVET|%28|3|HAYIR|%40|EVET|%33|3|HAYIR|%20|EVET|%49|2|
↳ HAYIR|%33|EVET|%28|3|HAYIR|%26|EVET|%29
827 826|2026-08-17 19:08:09|1|3/4|EVET|%46|%23|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%25|%35|T•B|EVET|%66|%51|TEPE_YON|FRAGMENTARY_2|BLOK_DU
↳ Z>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%30|3|EVET|%37|EVET|%35|2|HAYIR|%31|EVET|%35|3|EVET|%18|EVET|%60|3|EVET|%25|EVET|%32|4|HAYIR|%31|EVET|%38
↳ |4|HAYIR|%43|EVET|%39|3|EVET|%25|EVET|%29|1|HAYIR|%25|EVET|%28|1|HAYIR|%18|EVET|%27|3|EVET|%37|EVET|%31|3|EVET|%18|EVET|%43|2|HAYIR|%31|EVET|
↳ %28|4|HAYIR|%25|EVET|%29
828 827|2026-08-17 19:09:32|3|3/1|EVET|%46|%23|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%39|T•K|EVET|%66|%56|VADI_YON|FRAGMENTARY_2|BLOK_DU
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[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 828 ve sonrası)

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Z>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%52|3|EVET|%41|EVET|%39|1|HAYIR|%29|EVET|%34|3|EVET|%23|EVET|%35|2|HAYIR|%29|EVET|%30|3|EVET|%29|EVET|%32
|3|EVET|%41|EVET|%37|2|HAYIR|%29|EVET|%31|1|HAYIR|%23|EVET|%30|2|HAYIR|%17|EVET|%29|3|EVET|%41|EVET|%29|1|HAYIR|%23|EVET|%31|2|HAYIR|%29|EVET
|%28|3|EVET|%23|EVET|%29
828|2026-08-17 19:10:48|3|1/2|HAYIR|%46|%23|HAYIR|%23|%49|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%50|T•K|HAYIR|%66|%59|BLOK_DUZ_TEKRAR|FRAGMENTARY
_2|TEKRAR>TEPE>BLOK_DUZ|REGIME_SHIFT:0,75|EVET|%61|1|HAYIR|%44|EVET|%50|2|HAYIR|%27|EVET|%32|1|HAYIR|%27|EVET|%46|2|HAYIR|%27|EVET|%29|1|HAYI
R|%33|EVET|%45|1|HAYIR|%44|EVET|%70|1|HAYIR|%27|EVET|%35|1|HAYIR|%22|EVET|%31|2|HAYIR|%16|EVET|%28|1|HAYIR|%44|EVET|%40|2|HAYIR|%22|EVET|%54|
2|HAYIR|%27|EVET|%28|2|HAYIR|%27|EVET|%32
829|2026-08-17 19:12:08|4|3/2|HAYIR|%46|%23|EVET|%23|%34|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%47|T•B|HAYIR|%66|%51|VADI_YON|FRAGMENTARY_2|TEKRA
R>BLOK_TERS>VADI|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%51|3|HAYIR|%42|EVET|%47|1|HAYIR|%26|EVET|%43|2|EVET|%26|EVET|%38|1|HAYIR|%26|EVET
|%29|3|HAYIR|%31|EVET|%44|3|HAYIR|%42|EVET|%53|3|HAYIR|%26|EVET|%30|2|EVET|%21|EVET|%29|3|HAYIR|%15|EVET|%28|3|HAYIR|%42|EVET|%35|2|EVET|%21|
EVET|%40|1|HAYIR|%26|EVET|%27|3|HAYIR|%26|EVET|%33
830|2026-08-17 19:13:35|2|3|HAYIR|%46|%23|HAYIR|%23|%66|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%42|T•B|EVET|%66|%53|VADI_YON|FRAGMENTARY_2|BLOK_DU
Z>DONGU_TERS>VADI||HAYIR|%73|3|HAYIR|%40|EVET|%42|2|HAYIR|%25|EVET|%35|3|HAYIR|%30|EVET|%51|2|HAYIR|%25|EVET|%32|2|HAYIR|%30|EVET|%29|3|HAYIR
|%40|EVET|%36|4|EVET|%25|EVET|%29|3|HAYIR|%25|EVET|%32|2|HAYIR|%15|EVET|%25|3|HAYIR|%40|EVET|%32|3|HAYIR|%25|EVET|%54|2|HAYIR|%25|EVET|%28|3|
HAYIR|%25|EVET|%28
831|2026-08-17 19:15:12|4|4/3|HAYIR|%46|%23|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%25|%31|C•B|HAYIR|%66|%52|TEPE_YON|FRAGMENTARY_2|TEPE
>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%37|2|HAYIR|%38|EVET|%31|1|EVET|%23|EVET|%29|4|HAYIR|%28|EVET|%56|3|HAYIR|%23|EVET|%30|3|HAYIR|%28|EVET|%4
4|4|HAYIR|%38|EVET|%35|3|HAYIR|%28|EVET|%30|3|HAYIR|%23|EVET|%29|3|HAYIR|%14|EVET|%28|4|HAYIR|%38|EVET|%28|4|HAYIR|%23|EVET|%39|2|HAYIR|%23|E
VET|%28|3|HAYIR|%23|EVET|%27
832|2026-08-17 19:16:29|1|1/2|HAYIR|%46|%22|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|4/3|HAYIR|%25|%30|T•B|EVET|%66|%52|VADI_YON|FRAGMENTARY_2|TEPE>
VADI>VADI|PATTERN_BREAK:0,59|EVET|%38|4|HAYIR|%36|EVET|%30|2|HAYIR|%27|EVET|%34|1|HAYIR|%27|EVET|%38|3|EVET|%22|EVET|%27|1|HAYIR|%27|EVET|%32
|4|HAYIR|%36|EVET|%37|3|EVET|%27|EVET|%30|3|EVET|%22|EVET|%31|1|HAYIR|%13|EVET|%27|1|HAYIR|%36|EVET|%27|1|HAYIR|%22|EVET|%34|2|HAYIR|%22|EVET
|%28|4|HAYIR|%22|EVET|%28
833|2026-08-17 19:17:47|3|3/1|HAYIR|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%40|C•K|EVET|%66|%51|TEPE_YON|FRAGMENTARY_2|BLOK_
TERS>VADI>TEPE||HAYIR|%57|3|HAYIR|%34|EVET|%40|1|HAYIR|%26|EVET|%32|3|HAYIR|%26|EVET|%39|2|EVET|%26|EVET|%32|4|HAYIR|%26|EVET|%39|3|HAYIR|%34
|EVET|%29|2|EVET|%30|EVET|%31|1|HAYIR|%26|EVET|%31|2|EVET|%13|EVET|%28|3|HAYIR|%34|EVET|%27|3|HAYIR|%21|EVET|%38|2|EVET|%21|EVET|%28|3|HAYIR|
%21|EVET|%30
834|2026-08-17 19:19:04|2|1/4|HAYIR|%46|%22|EVET|%23|%26|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%25|%34|C•B|EVET|%66|%53|TEPE_YON|FRAGMENTARY_2|BLOK_TE
RS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%30|4|EVET|%33|EVET|%34|2|HAYIR|%25|EVET|%33|4|EVET|%25|EVET|%43|2|HAYIR|%29|EVET|%37|1|HAYIR|%25|EVET|%
28|1|HAYIR|%33|EVET|%36|4|EVET|%33|EVET|%30|3|HAYIR|%25|EVET|%30|4|EVET|%16|EVET|%25|1|HAYIR|%33|EVET|%28|1|HAYIR|%20|EVET|%53|2|HAYIR|%25|EV
ET|%28|4|EVET|%20|EVET|%28
835|2026-08-17 19:20:30|4|3/2|HAYIR|%46|%22|HAYIR|%23|%39|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%36|T•K|EVET|%66|%54|TEPE_YON|FRAGMENTARY_2|BLOK_
TERS>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%61|3|HAYIR|%36|EVET|%36|1|EVET|%24|EVET|%31|3|HAYIR|%28|EVET|%44|3|HAYIR|%28|EVET|%26|3|HAYIR|%24|EVE
T|%44|3|HAYIR|%32|EVET|%70|3|HAYIR|%36|EVET|%29|1|EVET|%24|EVET|%30|3|HAYIR|%20|EVET|%28|3|HAYIR|%32|EVET|%34|1|EVET|%20|EVET|%40|2|HAYIR|%24
|EVET|%28|1|EVET|%24|EVET|%27
836|2026-08-17 19:21:50|1|2/3|HAYIR|%46|%22|HAYIR|%23|%44|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%31|T•B|EVET|%66|%52|DONGU_TERS_YON|FRAGMENTARY_2
|VADI>BLOK_DUZ>DONGU_TERS||HAYIR|%56|3|HAYIR|%34|EVET|%31|2|HAYIR|%26|EVET|%41|2|HAYIR|%26|EVET|%40|3|HAYIR|%26|EVET|%25|2|HAYIR|%23|EVET|%31
|4|HAYIR|%30|EVET|%30|3|HAYIR|%34|EVET|%31|3|HAYIR|%26|EVET|%34|1|EVET|%19|EVET|%27|2|HAYIR|%30|EVET|%28|1|EVET|%23|EVET|%32|1|EVET|%23|EVET|
%27|4|HAYIR|%26|EVET|%28
837|2026-08-17 19:23:16|1|3/1|HAYIR|%46|%22|HAYIR|%23|%0|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%0|T•K|EVET|%67|%0|TEPE_YON|FRAGMENTARY_2|DONGU>VA
DI>TEPE|PATTERN_BREAK:0,59|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|
EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|3|HAYIR|%0|EVET|%0
838|2026-09-11 18:49:57|2|4/2|EVET|%46|%22|HAYIR|%23|%54|0|HAYIR|%0|HAYIR|%0|4/3|EVET|%25|%34|C•K|EVET|%67|%52|VADI_YON|FRAGMENTARY_2|DONGU>V
ADI>VADI||HAYIR|%68|4|EVET|%0|EVET|%34|2|HAYIR|%0|EVET|%33|4|EVET|%0|EVET|%42|1|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%43|3|HAYIR|%0|EVET|%43|4|E
VET|%0|EVET|%31|4|EVET|%0|EVET|%39|4|EVET|%0|EVET|%26|3|HAYIR|%0|EVET|%28|4|EVET|%0|EVET|%80|2|HAYIR|%0|EVET|%30|4|EVET|%0|EVET|%34
839|2026-09-11 18:49:59|4|3/2|HAYIR|%46|%22|EVET|%23|%30|0|HAYIR|%0|HAYIR|%0|2/3|EVET|%26|%27|T•K|EVET|%67|%53|DONGU_YON|FRAGMENTARY_2|VADI>T
EPE>DONGU|PATTERN_BREAK:0,59|EVET|%39|2|EVET|%0|EVET|%27|1|HAYIR|%0|EVET|%32|3|HAYIR|%0|EVET|%35|3|HAYIR|%0|EVET|%34|3|HAYIR|%0|EVET|%30|3|HA
YIR|%0|EVET|%34|3|HAYIR|%0|EVET|%29|1|HAYIR|%0|EVET|%43|3|HAYIR|%0|EVET|%28|3|HAYIR|%0|EVET|%30|2|EVET|%0|EVET|%52|2|EVET|%0|EVET|%29|1|HAYIR
|%0|EVET|%27
840|2026-09-11 18:50:00|2|3/1|EVET|%46|%23|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|3/1|EVET|%26|%37|C•K|HAYIR|%67|%52|DONGU_YON|FRAGMENTARY_2|DALGA
_TEK_SIM_2>VADI>DONGU|PATTERN_BREAK:0,59|EVET|%48|3|EVET|%0|EVET|%37|2|HAYIR|%0|EVET|%33|3|EVET|%0|EVET|%31|2|HAYIR|%0|EVET|%30|3|EVET|%0|EVE
T|%43|3|EVET|%0|EVET|%44|4|HAYIR|%0|EVET|%31|3|EVET|%0|EVET|%37|4|HAYIR|%0|EVET|%26|3|EVET|%0|EVET|%32|1|HAYIR|%0|EVET|%52|2|HAYIR|%0|EVET|%2
9|3|EVET|%0|EVET|%28
841|2026-09-11 18:50:03|3|2/1|HAYIR|%46|%22|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%30|T•K|HAYIR|%66|%52|TEPE_YON|FRAGMENTARY_2|VADI>
TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%39|4|EVET|%0|EVET|%30|1|HAYIR|%0|EVET|%31|2|HAYIR|%0|EVET|%27|1|HAYIR|%0|EVET|%31|4|EVET|%0|EVET|%39|4|EVE
T|%0|EVET|%53|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%34|2|HAYIR|%0|EVET|%29|2|HAYIR|%0|EVET|%27|2|HAYIR|%0|EVET|%53|1|HAYIR|%0|EVET|%27|1|HAYIR
|%0|EVET|%30
842|2026-09-11 18:50:04|4|2/4|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%35|C•K|HAYIR|%66|%57|VADI_YON|FRAGMENTARY_2|DONG
U>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%34|4|HAYIR|%80|EVET|%35|2|HAYIR|%0|EVET|%31|4|HAYIR|%40|EVET|%49|2|HAYIR|%0|EVET|%42|4|HAYIR|%40|EVET|%4
0|4|HAYIR|%40|EVET|%72|2|HAYIR|%20|EVET|%30|2|HAYIR|%40|EVET|%28|3|EVET|%20|EVET|%28|4|HAYIR|%20|EVET|%33|2|HAYIR|%40|EVET|%77|2|HAYIR|%20|EV
ET|%29|3|EVET|%40|EVET|%32
843|2026-09-11 18:50:05|3|2/1|HAYIR|%46|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%32|T•B|EVET|%66|%53|DONGU_YON|FRAGMENTARY_2|DONGU
_TERS>TEPE>DONGU|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%66|EVET|%32|1|EVET|%0|EVET|%30|3|HAYIR|%33|EVET|%33|2|HAYIR|%0|EVET|%40|3|HAYIR|%33|EVE
T|%31|3|HAYIR|%33|EVET|%29|2|HAYIR|%16|EVET|%31|1|EVET|%33|EVET|%38|2|HAYIR|%33|EVET|%28|2|HAYIR|%16|EVET|%27|3|HAYIR|%33|EVET|%39|2|HAYIR|%1
6|EVET|%29|2|HAYIR|%50|EVET|%31
844|2026-09-11 18:50:07|1|3/4|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%25|T•B|HAYIR|%66|%54|TEPE_YON|FRAGMENTARY_2|VADI
>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%32|1|HAYIR|%57|EVET|%25|2|EVET|%14|EVET|%32|3|HAYIR|%28|EVET|%33|3|HAYIR|%0|EVET|%46|1|HAYIR|%28|EV
ET|%45|1|HAYIR|%28|EVET|%39|3|HAYIR|%14|EVET|%31|3|HAYIR|%42|EVET|%37|1|HAYIR|%28|EVET|%27|1|HAYIR|%14|EVET|%28|3|HAYIR|%28|EVET|%74|1|HAYIR|
%14|EVET|%27|2|EVET|%42|EVET|%30
845|2026-09-11 18:50:09|2|4/2|HAYIR|%46|%22|HAYIR|%23|%40|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%26|%39|C•K|EVET|%66|%54|TEPE_YON|WEAK_PERIODIC_3|BLO
K_DUZ>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%68|4|HAYIR|%50|EVET|%39|1|EVET|%25|EVET|%32|1|EVET|%25|EVET|%30|1|EVET|%0|EVET|%32|3|HAYIR|%25|EVET|
%31|4|HAYIR|%25|EVET|%27|4|HAYIR|%12|EVET|%31|4|HAYIR|%37|EVET|%29|4|HAYIR|%25|EVET|%26|1|EVET|%12|EVET|%26|4|HAYIR|%25|EVET|%50|1|EVET|%12|E
VET|%27|4|HAYIR|%50|EVET|%35
846|2026-09-11 18:50:10|1|2/3|HAYIR|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%36|T•K|EVET|%66|%50|DONGU_TERS_YON|FRAGMENTARY_2|
TEPE>VADI>DONGU_TERS||HAYIR|%51|1|EVET|%44|EVET|%36|2|HAYIR|%33|EVET|%32|3|HAYIR|%33|EVET|%42|4|HAYIR|%11|EVET|%40|3|HAYIR|%22|EVET|%43|3|HAY
IR|%22|EVET|%41|3|HAYIR|%11|EVET|%30|3|HAYIR|%33|EVET|%27|1|EVET|%22|EVET|%27|3|HAYIR|%22|EVET|%32|1|EVET|%22|EVET|%73|1|EVET|%22|EVET|%27|1|
EVET|%44|EVET|%35
847|2026-09-11 18:50:12|1|1/3|HAYIR|%46|%22|HAYIR|%23|%33|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%26|%36|T•B|EVET|%66|%55|TEPE_YON|WEAK_PERIODIC_3|DON
GU_TERS>DONGU>TEPE|PATTERN_BREAK:0,59|EVET|%41|1|HAYIR|%50|EVET|%36|1|HAYIR|%30|EVET|%30|1|HAYIR|%30|EVET|%49|4|EVET|%10|EVET|%28|1|HAYIR|%20
|EVET|%46|1|HAYIR|%20|EVET|%57|2|HAYIR|%10|EVET|%30|1|HAYIR|%30|EVET|%33|1|HAYIR|%30|EVET|%27|1|HAYIR|%20|EVET|%33|3|HAYIR|%30|EVET|%32|1|HAY
IR|%30|EVET|%27|3|HAYIR|%50|EVET|%30
848|2026-09-11 18:50:15|4|3/2|HAYIR|%46|%22|HAYIR|%23|%34|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%32|C•K|EVET|%66|%52|DONGU_TERS_YON|FRAGMENTARY_2|
DONGU_TERS>DONGU>DONGU_TERS|PATTERN_BREAK:0,61|EVET|%54|1|EVET|%45|EVET|%32|2|HAYIR|%27|EVET|%32|3|HAYIR|%27|EVET|%35|3|HAYIR|%18|EVET|%32|1|
EVET|%18|EVET|%46|1|EVET|%18|EVET|%39|3|HAYIR|%9|EVET|%29|3|HAYIR|%27|EVET|%29|3|HAYIR|%27|EVET|%28|1|EVET|%18|EVET|%29|2|HAYIR|%27|EVET|%64|
1|EVET|%27|EVET|%27|3|HAYIR|%45|EVET|%28
849|2026-09-11 18:50:17|1|3/2|HAYIR|%46|%22|EVET|%23|%47|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%26|%51|T•K|EVET|%67|%52|DONGU_TERS_YON|FRAGMENTARY_2|
DONGU_TERS>TEPE>DONGU_TERS||HAYIR|%54|3|HAYIR|%50|EVET|%51|1|HAYIR|%25|EVET|%32|3|HAYIR|%25|EVET|%84|3|HAYIR|%16|EVET|%38|3|HAYIR|%25|EVET|%4
2|3|HAYIR|%25|EVET|%74|3|HAYIR|%8|EVET|%30|3|HAYIR|%25|EVET|%38|1|HAYIR|%25|EVET|%27|3|HAYIR|%25|EVET|%45|3|HAYIR|%25|EVET|%93|1|HAYIR|%33|EV
ET|%27|1|HAYIR|%41|EVET|%28
850|2026-09-11 18:50:19|2|4/3|HAYIR|%46|%22|HAYIR|%23|%32|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%26|%39|C•K|EVET|%67|%54|DONGU_TERS_YON|FRAGMENTARY_2
|VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%46|EVET|%39|2|HAYIR|%23|EVET|%31|4|HAYIR|%23|EVET|%57|1|EVET|%15|EVET|%40|4|HAYIR|
%23|EVET|%31|4|HAYIR|%23|EVET|%52|4|HAYIR|%7|EVET|%30|2|HAYIR|%23|EVET|%47|4|HAYIR|%23|EVET|%26|4|HAYIR|%23|EVET|%32|4|HAYIR|%23|EVET|%98|2|H
AYIR|%30|EVET|%28|4|HAYIR|%38|EVET|%34
851|2026-09-11 18:50:21|1|1/4|HAYIR|%46|%22|EVET|%23|%59|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%37|T•B|EVET|%67|%53|DONGU_TERS_YON|FRAGMENTARY_2|
DONGU>DONGU>DONGU_TERS||HAYIR|%76|1|HAYIR|%42|EVET|%37|1|HAYIR|%21|EVET|%30|1|HAYIR|%21|EVET|%32|1|HAYIR|%21|EVET|%34|4|EVET|%21|EVET|%39|4|E
VET|%21|EVET|%58|3|HAYIR|%7|EVET|%30|1|HAYIR|%21|EVET|%39|1|HAYIR|%21|EVET|%27|4|EVET|%21|EVET|%30|1|HAYIR|%21|EVET|%79|2|HAYIR|%28|EVET|%28|
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 852 ve sonrası)

```
1|HAYIR|%35|EVET|%36
852|2026-09-11 18:50:23|4|3/2|EVET|%46|%22|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%26|%44|T•K|EVET|%67|%57|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%35|1|HAYIR|%40|EVET|%44|2|HAYIR|%20|EVET|%31|1|HAYIR|%20|EVET|%73|3|EVET|%20|EVET|%31|1|HAYIR|%26|EVET|%46|1|HAYIR|%26|EVET|%67|2|HAYIR|%6|EVET|%29|1|HAYIR|%20|EVET|%32|3|EVET|%20|EVET|%28|1|HAYIR|%26|EVET|%41|1|HAYIR|%20|EVET|%65|2|HAYIR|%26|EVET|%28|3|EVET|%33|EVET|%28
853|2026-09-11 18:50:25|3|1/2|EVET|%46|%22|HAYIR|%23|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%32|C•K|EVET|%67|%55|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%37|EVET|%32|1|EVET|%18|EVET|%31|3|HAYIR|%18|EVET|%31|3|HAYIR|%25|EVET|%39|3|HAYIR|%25|EVET|%43|3|HAYIR|%25|EVET|%46|2|HAYIR|%6|EVET|%31|1|EVET|%18|EVET|%39|2|HAYIR|%25|EVET|%28|3|HAYIR|%25|EVET|%31|2|HAYIR|%18|EVET|%72|2|HAYIR|%25|EVET|%28|2|HAYIR|%37|EVET|%30
854|2026-09-11 18:50:26|1|2/4|HAYIR|%46|%22|HAYIR|%23|%47|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%29|T•B|EVET|%67|%50|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TEPE||HAYIR|%65|2|HAYIR|%35|EVET|%29|2|HAYIR|%23|EVET|%39|3|EVET|%17|EVET|%41|3|EVET|%23|EVET|%44|4|HAYIR|%23|EVET|%31|4|HAYIR|%23|EVET|%41|3|EVET|%5|EVET|%29|3|EVET|%23|EVET|%36|1|HAYIR|%23|EVET|%27|3|EVET|%23|EVET|%32|3|EVET|%17|EVET|%71|1|HAYIR|%23|EVET|%27|2|HAYIR|%35|EVET|%31
855|2026-09-11 18:50:28|3|1/3|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%26|%40|T•B|EVET|%67|%53|VADI_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>VADI|PATTERN_BREAK:0,59|EVET|%38|3|HAYIR|%33|EVET|%40|1|HAYIR|%22|EVET|%35|3|HAYIR|%22|EVET|%39|3|HAYIR|%27|EVET|%33|1|HAYIR|%22|EVET|%47|1|HAYIR|%22|EVET|%47|1|HAYIR|%11|EVET|%31|1|HAYIR|%27|EVET|%42|2|HAYIR|%22|EVET|%28|1|HAYIR|%27|EVET|%34|3|HAYIR|%22|EVET|%90|2|HAYIR|%22|EVET|%28|3|HAYIR|%33|EVET|%29
856|2026-09-11 18:50:30|4|2/3|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%46|T•B|EVET|%67|%51|VADI_YON|FRAGMENTARY_2|DONGU_TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%39|3|HAYIR|%31|EVET|%46|2|HAYIR|%21|EVET|%29|3|HAYIR|%21|EVET|%49|1|HAYIR|%26|EVET|%32|1|HAYIR|%21|EVET|%46|3|HAYIR|%21|EVET|%43|3|HAYIR|%10|EVET|%30|1|HAYIR|%26|EVET|%35|3|HAYIR|%21|EVET|%28|3|HAYIR|%26|EVET|%31|3|HAYIR|%21|EVET|%84|2|HAYIR|%21|EVET|%28|3|HAYIR|%31|EVET|%33
857|2026-09-11 18:50:31|4|1/3|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%40|C•K|EVET|%67|%52|VADI_YON|FRAGMENTARY_2|DONGU_TERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%40|1|HAYIR|%30|EVET|%40|1|HAYIR|%20|EVET|%31|4|EVET|%20|EVET|%32|1|HAYIR|%25|EVET|%32|1|HAYIR|%20|EVET|%46|1|HAYIR|%20|EVET|%58|1|HAYIR|%10|EVET|%36|1|HAYIR|%25|EVET|%36|3|HAYIR|%20|EVET|%28|1|HAYIR|%25|EVET|%37|4|EVET|%20|EVET|%65|1|HAYIR|%20|EVET|%27|3|HAYIR|%30|EVET|%29
858|2026-09-11 18:50:32|4|3/2|HAYIR|%46|%22|EVET|%23|%29|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%32|T•K|EVET|%67|%52|TEPE_YON|FRAGMENTARY_2|VADI>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%28|EVET|%32|2|EVET|%19|EVET|%30|4|HAYIR|%23|EVET|%31|1|HAYIR|%23|EVET|%30|3|HAYIR|%19|EVET|%27|3|HAYIR|%19|EVET|%33|3|HAYIR|%9|EVET|%48|2|EVET|%23|EVET|%36|3|HAYIR|%19|EVET|%28|3|HAYIR|%23|EVET|%29|3|HAYIR|%23|EVET|%92|1|HAYIR|%19|EVET|%27|3|HAYIR|%28|EVET|%28
859|2026-09-11 18:50:34|2|3/4|HAYIR|%46|%22|HAYIR|%23|%29|0|HAYIR|%0|HAYIR|%0|3/1|HAYIR|%25|%40|T•B|HAYIR|%67|%60|VADI_YON|FRAGMENTARY_2|TEPE>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%44|3|HAYIR|%27|EVET|%40|1|HAYIR|%22|EVET|%31|1|HAYIR|%22|EVET|%41|1|HAYIR|%22|EVET|%39|1|HAYIR|%18|EVET|%45|1|HAYIR|%18|EVET|%45|4|HAYIR|%9|EVET|%30|4|HAYIR|%27|EVET|%36|4|HAYIR|%18|EVET|%26|1|HAYIR|%22|EVET|%34|1|HAYIR|%22|EVET|%92|1|HAYIR|%18|EVET|%27|3|HAYIR|%27|EVET|%29
860|2026-09-11 18:50:36|2|2/3|HAYIR|%46|%22|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%25|%35|T•K|HAYIR|%67|%54|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|%42|2|HAYIR|%26|EVET|%35|2|HAYIR|%21|EVET|%30|3|HAYIR|%21|EVET|%38|1|HAYIR|%21|EVET|%31|1|HAYIR|%17|EVET|%33|3|HAYIR|%17|EVET|%40|1|HAYIR|%8|EVET|%31|2|HAYIR|%26|EVET|%35|4|EVET|%17|EVET|%26|3|HAYIR|%21|EVET|%27|3|HAYIR|%21|EVET|%90|1|HAYIR|%17|EVET|%27|2|HAYIR|%26|EVET|%28
861|2026-09-11 18:50:38|4|1/3|HAYIR|%46|%22|HAYIR|%23|%30|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%27|T•B|EVET|%67|%54|TEPE_YON|FRAGMENTARY_2|VADI>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%44|1|HAYIR|%25|EVET|%27|1|HAYIR|%20|EVET|%31|1|HAYIR|%20|EVET|%33|3|HAYIR|%20|EVET|%44|3|HAYIR|%16|EVET|%42|3|HAYIR|%16|EVET|%36|3|HAYIR|%8|EVET|%29|1|HAYIR|%25|EVET|%35|3|HAYIR|%20|EVET|%28|3|HAYIR|%20|EVET|%29|3|HAYIR|%20|EVET|%57|1|HAYIR|%16|EVET|%27|1|HAYIR|%25|EVET|%27
862|2026-09-11 18:50:40|4|2/3|HAYIR|%46|%22|HAYIR|%23|%28|0|HAYIR|%0|HAYIR|%0|1/3|HAYIR|%25|%49|T•K|HAYIR|%67|%55|TEPE_YON|FRAGMENTARY_2|DONGU_TERS>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%34|1|HAYIR|%24|EVET|%49|2|HAYIR|%20|EVET|%30|1|HAYIR|%20|EVET|%38|1|HAYIR|%20|EVET|%33|1|HAYIR|%16|EVET|%45|1|HAYIR|%16|EVET|%70|1|HAYIR|%8|EVET|%35|2|HAYIR|%24|EVET|%37|3|HAYIR|%20|EVET|%28|1|HAYIR|%20|EVET|%36|1|HAYIR|%20|EVET|%98|1|HAYIR|%16|EVET|%27|3|HAYIR|%24|EVET|%28
863|2026-09-11 18:50:40|4|1/2|HAYIR|%46|%22|HAYIR|%23|%26|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%34|C•B|EVET|%67|%51|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|%31|1|HAYIR|%23|EVET|%34|1|HAYIR|%19|EVET|%30|3|HAYIR|%19|EVET|%32|1|HAYIR|%19|EVET|%26|2|HAYIR|%15|EVET|%27|2|HAYIR|%15|EVET|%27|2|HAYIR|%7|EVET|%38|2|HAYIR|%23|EVET|%34|3|HAYIR|%19|EVET|%28|2|HAYIR|%19|EVET|%28|3|HAYIR|%19|EVET|%91|2|HAYIR|%15|EVET|%28|3|HAYIR|%23|EVET|%27
864|2026-09-11 18:50:41|4|2/3|HAYIR|%46|%22|EVET|%23|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%35|C•K|HAYIR|%67|%52|VADI_YON|FRAGMENTARY_2|DONGU_TERS>VADI>VADI|PATTERN_BREAK:0,59|EVET|%46|1|HAYIR|%22|EVET|%35|2|HAYIR|%18|EVET|%28|2|HAYIR|%18|EVET|%29|2|HAYIR|%18|EVET|%27|1|HAYIR|%14|EVET|%32|2|HAYIR|%14|EVET|%33|2|HAYIR|%7|EVET|%34|4|HAYIR|%22|EVET|%32|3|EVET|%18|EVET|%27|2|HAYIR|%18|EVET|%29|2|HAYIR|%18|EVET|%59|2|HAYIR|%14|EVET|%28|3|EVET|%22|EVET|%27
865|2026-09-11 18:50:44|3|1/2|HAYIR|%46|%22|EVET|%23|%31|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%25|%32|T•K|EVET|%67|%52|VADI_YON|FRAGMENTARY_2|TEPE>VADI>VADI|PATTERN_BREAK:0,59|EVET|%44|2|EVET|%21|EVET|%32|1|HAYIR|%17|EVET|%30|1|HAYIR|%17|EVET|%44|2|EVET|%17|EVET|%34|4|HAYIR|%14|EVET|%35|4|HAYIR|%14|EVET|%30|1|HAYIR|%7|EVET|%31|1|HAYIR|%21|EVET|%33|2|EVET|%21|EVET|%28|1|HAYIR|%17|EVET|%28|3|HAYIR|%17|EVET|%53|2|EVET|%14|EVET|%28|2|EVET|%25|EVET|%30
866|2026-09-11 18:50:45|2|2/4|EVET|%46|%22|HAYIR|%23|%27|0|HAYIR|%0|HAYIR|%0|2/4|EVET|%25|%35|C•K|EVET|%67|%58|TEPE_YON|FRAGMENTARY_2|TEPE>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%42|2|EVET|%24|EVET|%35|2|EVET|%17|EVET|%30|2|EVET|%17|EVET|%58|2|EVET|%20|EVET|%28|2|EVET|%13|EVET|%28|2|EVET|%13|EVET|%36|4|HAYIR|%6|EVET|%30|4|HAYIR|%20|EVET|%33|4|HAYIR|%24|EVET|%26|2|EVET|%17|EVET|%32|2|EVET|%17|EVET|%71|2|EVET|%17|EVET|%28|4|HAYIR|%27|EVET|%29
867|2026-09-11 18:50:46|2|1/2|HAYIR|%46|%22|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%37|C•K|EVET|%67|%53|TEPE_YON|FRAGMENTARY_2|VADI>VADI>TEPE|PATTERN_BREAK:0,59|EVET|%39|2|HAYIR|%26|EVET|%37|1|HAYIR|%20|EVET|%29|2|HAYIR|%20|EVET|%28|2|HAYIR|%23|EVET|%35|1|HAYIR|%16|EVET|%43|1|HAYIR|%16|EVET|%52|1|HAYIR|%6|EVET|%29|4|EVET|%20|EVET|%32|4|EVET|%23|EVET|%26|1|HAYIR|%20|EVET|%32|2|HAYIR|%20|EVET|%58|2|HAYIR|%20|EVET|%27|2|HAYIR|%26|EVET|%28
868|2026-09-11 18:50:48|4|3/2|HAYIR|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|1/3|EVET|%26|%31|T•B|EVET|%67|%53|VADI_YON|FRAGMENTARY_2|ARTIS>VADI>VADI||HAYIR|%41|1|EVET|%25|EVET|%31|2|HAYIR|%19|EVET|%29|1|EVET|%19|EVET|%37|3|HAYIR|%22|EVET|%36|1|EVET|%16|EVET|%43|1|EVET|%16|EVET|%43|3|HAYIR|%6|EVET|%29|4|HAYIR|%22|EVET|%35|3|HAYIR|%25|EVET|%28|1|EVET|%19|EVET|%29|3|HAYIR|%19|EVET|%54|2|HAYIR|%19|EVET|%27|1|EVET|%25|EVET|%26
869|2026-09-11 18:50:49|1|1/4|HAYIR|%46|%22|HAYIR|%23|%31|0|HAYIR|%0|HAYIR|%0|4/1|HAYIR|%25|%30|T•B|EVET|%67|%52|BLOK_TERS_TEKRAR|FRAGMENTARY_2|TEPE>TEPE>BLOK_TERS|REGIME_SHIFT:0,75,PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%28|EVET|%30|1|HAYIR|%18|EVET|%33|1|HAYIR|%21|EVET|%40|3|EVET|%21|EVET|%33|4|HAYIR|%18|EVET|%44|4|HAYIR|%18|EVET|%41|3|EVET|%6|EVET|%30|1|HAYIR|%21|EVET|%30|1|HAYIR|%25|EVET|%27|4|HAYIR|%21|EVET|%29|1|HAYIR|%18|EVET|%51|1|HAYIR|%18|EVET|%27|1|HAYIR|%28|EVET|%28
870|2026-09-11 18:50:51|3|2/4|HAYIR|%46|%22|EVET|%23|%38|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%25|%37|T•K|HAYIR|%67|%51|VADI_YON|FRAGMENTARY_2|TEPE>TEPE>VADI|REGIME_SHIFT:0,50,PATTERN_BREAK:0,59|EVET|%58|3|HAYIR|%27|EVET|%37|2|HAYIR|%18|EVET|%30|2|HAYIR|%21|EVET|%46|2|HAYIR|%24|EVET|%28|2|HAYIR|%18|EVET|%32|2|HAYIR|%18|EVET|%36|2|HAYIR|%9|EVET|%30|2|HAYIR|%21|EVET|%30|2|HAYIR|%24|EVET|%28|2|HAYIR|%21|EVET|%31|3|HAYIR|%18|EVET|%41|1|HAYIR|%18|EVET|%27|3|HAYIR|%27|EVET|%29
871|2026-09-11 18:50:53|4|1/3|HAYIR|%46|%22|EVET|%23|%41|0|HAYIR|%0|HAYIR|%0|3/2|EVET|%26|%44|C•K|HAYIR|%67|%54|VADI_YON|FRAGMENTARY_2|VADI>VADI>VADI||HAYIR|%55|3|EVET|%26|EVET|%44|1|HAYIR|%17|EVET|%29|3|EVET|%20|EVET|%48|2|HAYIR|%23|EVET|%31|3|EVET|%17|EVET|%41|3|EVET|%17|EVET|%54|3|EVET|%8|EVET|%29|4|HAYIR|%20|EVET|%37|3|EVET|%23|EVET|%28|3|EVET|%20|EVET|%35|3|EVET|%17|EVET|%84|2|HAYIR|%17|EVET|%27|3|EVET|%26|EVET|%33
872|2026-09-11 18:50:54|3|2/1|HAYIR|%46|%22|HAYIR|%23|%38|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%32|T•K|EVET|%67|%52|DONGU_TERS_YON|FRAGMENTARY_2|VADI>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%59|2|HAYIR|%28|EVET|%32|2|HAYIR|%17|EVET|%29|3|EVET|%22|EVET|%40|2|HAYIR|%22|EVET|%35|3|EVET|%20|EVET|%42|3|EVET|%20|EVET|%42|2|HAYIR|%11|EVET|%30|2|HAYIR|%20|EVET|%30|2|HAYIR|%25|EVET|%28|3|EVET|%22|EVET|%30|3|EVET|%20|EVET|%39|1|HAYIR|%17|EVET|%28|2|HAYIR|%28|EVET|%31
873|2026-09-11 18:50:55|3|1/2|HAYIR|%46|%22|HAYIR|%23|%35|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%39|T•K|EVET|%67|%53|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%37|1|HAYIR|%27|EVET|%39|1|HAYIR|%16|EVET|%30|3|EVET|%25|EVET|%38|2|HAYIR|%22|EVET|%42|1|HAYIR|%22|EVET|%43|1|HAYIR|%22|EVET|%61|1|HAYIR|%11|EVET|%33|1|HAYIR|%19|EVET|%28|2|HAYIR|%25|EVET|%28|1|HAYIR|%25|EVET|%35|1|HAYIR|%22|EVET|%71|1|HAYIR|%16|EVET|%28|2|HAYIR|%27|EVET|%32
874|2026-09-11 18:50:57|3|4/1|HAYIR|%46|%22|EVET|%23|%0|0|HAYIR|%0|HAYIR|%0|4/2|EVET|%26|%0|C•K|EVET|%67|%0|DONGU_TERS_YON|FRAGMENTARY_2|BLOK_DUZ>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%0|4|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|4|EVET|%0|EVET|%0|2|HAYIR|%0|EVET|%0|1|HAYIR|%0|EVET|%0|2|HAYIR|%0|EVET|%0
875|2026-09-11 18:51:04|4|2|HAYIR|%46|%22|HAYIR|%23|%75|0|HAYIR|%0|HAYIR|%0|2/3|HAYIR|%26|%55|C•K|HAYIR|%67|%54|VADI_YON|FRAGMENTARY_2|BLOK_TERS>TEPE>VADI||HAYIR|%77|2|HAYIR|%0|EVET|%55|1|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%69|2|HAYIR|%0|EVET|%35|2|HAYIR|%0|EVET|%43|2|HAYIR|%0|EVET|%82|3|EVET|%0|EVET|%30|4|HAYIR|%0|EVET|%33|3|EVET|%0|EVET|%28|2|HAYIR|%0|EVET|%46|2|HAYIR|%0|EVET|%95|2|HAYIR|%0|EVET|%28|3|EVET|%0|EVET|%34
876|2026-09-11 18:51:04|3|3/2|HAYIR|%46|%22|EVET|%23|%43|0|HAYIR|%0|HAYIR|%0|2/1|EVET|%26|%37|C•K|EVET|%67|%52|TEPE_YON|FRAGMENTARY_2|BLOK_TE
```

[Dosya #84/84 — Devam] Proje Yolu: fan_data_live.csv (Satır 877 ve sonrası)


```
RS>VADI>TEPE||HAYIR|%64|2|EVET|%0|EVET|%37|2|EVET|%0|EVET|%28|3|HAYIR|%0|EVET|%35|3|HAYIR|%0|EVET|%36|2|EVET|%0|EVET|%43|2|EVET|%0|EVET|%50|2
|EVET|%0|EVET|%29|3|HAYIR|%0|EVET|%39|2|EVET|%0|EVET|%28|2|EVET|%0|EVET|%33|3|HAYIR|%0|EVET|%47|2|EVET|%0|EVET|%28|2|EVET|%0|EVET|%30
877|2026-09-11 18:51:06|2|2/4|HAYIR|%46|%22|HAYIR|%23|%43|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%44|T•K|EVET|%67|%54|TEPE_YON|FRAGMENTARY_2|DALGA
_TEK_SIM_2>BLOK_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%51|2|HAYIR|%0|EVET|%44|1|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%61|1|HAYIR|%0|EVET|%30|2|HAYIR
|%0|EVET|%43|2|HAYIR|%0|EVET|%54|4|HAYIR|%0|EVET|%30|4|HAYIR|%0|EVET|%32|4|HAYIR|%0|EVET|%26|2|HAYIR|%0|EVET|%39|2|HAYIR|%0|EVET|%75|2|HAYIR|
%0|EVET|%28|4|HAYIR|%0|EVET|%29
878|2026-09-11 18:51:11|3|2/4|HAYIR|%46|%22|EVET|%24|%36|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%26|%33|T•K|HAYIR|%67|%52|VADI_YON|FRAGMENTARY_2|BLOK_
DUZ>VADI>VADI|PATTERN_BREAK:0,59|EVET|%47|1|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%27|4|EVET|%0|EVET|%32|2|HAYIR|%0|EVET|%33|2|HAYIR|%0|EVET|%43|
2|HAYIR|%0|EVET|%46|2|HAYIR|%0|EVET|%30|3|HAYIR|%0|EVET|%30|2|HAYIR|%0|EVET|%28|2|HAYIR|%0|EVET|%32|2|HAYIR|%0|EVET|%88|2|HAYIR|%0|EVET|%28|1
|HAYIR|%0|EVET|%30
879|2026-09-11 18:51:12|4|3/2|HAYIR|%46|%22|EVET|%24|%48|0|HAYIR|%0|HAYIR|%0|3/2|HAYIR|%26|%45|T•K|EVET|%67|%54|DONGU_TERS_YON|FRAGMENTARY_2|
BLOK_DUZ>VADI>DONGU_TERS||HAYIR|%51|3|HAYIR|%40|EVET|%45|1|HAYIR|%20|EVET|%29|2|EVET|%40|EVET|%35|2|EVET|%0|EVET|%46|4|HAYIR|%40|EVET|%32|3|H
AYIR|%40|EVET|%39|3|HAYIR|%40|EVET|%31|4|HAYIR|%20|EVET|%32|3|HAYIR|%40|EVET|%28|3|HAYIR|%40|EVET|%31|2|EVET|%0|EVET|%71|2|EVET|%20|EVET|%28|
3|HAYIR|%40|EVET|%35
880|2026-09-11 18:51:14|2|3/4|HAYIR|%46|%22|HAYIR|%24|%48|0|HAYIR|%0|HAYIR|%0|3/4|HAYIR|%25|%42|T•B|EVET|%67|%52|TEPE_YON|FRAGMENTARY_2|TEKRA
R>DONGU_TERS>TEPE|PATTERN_BREAK:0,59|EVET|%66|3|HAYIR|%33|EVET|%42|2|HAYIR|%16|EVET|%30|3|HAYIR|%50|EVET|%57|2|HAYIR|%16|EVET|%34|3|HAYIR|%33
|EVET|%36|3|HAYIR|%33|EVET|%45|4|HAYIR|%33|EVET|%30|3|HAYIR|%16|EVET|%31|4|HAYIR|%33|EVET|%26|3|HAYIR|%33|EVET|%36|3|HAYIR|%16|EVET|%55|2|HAY
IR|%33|EVET|%27|3|HAYIR|%33|EVET|%28
881|2026-09-11 18:51:15|1|1/2|HAYIR|%46|%22|HAYIR|%24|%32|0|HAYIR|%0|HAYIR|%0|1/2|HAYIR|%25|%40|T•K|EVET|%67|%55|DONGU_TERS_YON|FRAGMENTARY_2
|BLOK_TERS>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%48|1|HAYIR|%28|EVET|%40|1|HAYIR|%14|EVET|%30|2|HAYIR|%42|EVET|%41|2|HAYIR|%14|EVET|
%31|1|HAYIR|%28|EVET|%42|1|HAYIR|%28|EVET|%48|3|EVET|%28|EVET|%31|2|HAYIR|%14|EVET|%28|1|HAYIR|%28|EVET|%27|1|HAYIR|%28|EVET|%33|2|HAYIR|%14|
EVET|%71|1|HAYIR|%28|EVET|%28|1|HAYIR|%28|EVET|%35
882|2026-09-11 18:51:16|3|2/4|HAYIR|%46|%22|HAYIR|%24|%29|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%38|C•K|HAYIR|%67|%51|DONGU_TERS_YON|FRAGMENTARY_2
|BLOK_TERS>DONGU_TERS>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%40|3|EVET|%25|EVET|%38|2|HAYIR|%12|EVET|%28|4|HAYIR|%37|EVET|%29|2|HAYIR|%12|EVET|%
35|3|EVET|%25|EVET|%28|3|EVET|%25|EVET|%35|2|HAYIR|%37|EVET|%30|3|EVET|%12|EVET|%38|2|HAYIR|%25|EVET|%28|3|EVET|%25|EVET|%27|3|EVET|%12|EVET|
%60|2|HAYIR|%25|EVET|%27|3|EVET|%25|EVET|%28
883|2026-09-11 18:51:17|3|2/1|HAYIR|%46|%22|EVET|%24|%37|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%26|%36|C•K|EVET|%67|%51|DONGU_TERS_YON|FRAGMENTARY_2|
BLOK_TERS>VADI>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%63|2|HAYIR|%33|EVET|%36|1|EVET|%11|EVET|%29|2|HAYIR|%33|EVET|%31|1|EVET|%11|EVET|%30|2|HAY
IR|%33|EVET|%43|2|HAYIR|%33|EVET|%52|1|EVET|%33|EVET|%32|3|HAYIR|%22|EVET|%30|2|HAYIR|%22|EVET|%28|2|HAYIR|%33|EVET|%33|1|EVET|%22|EVET|%63|1
|EVET|%22|EVET|%28|2|HAYIR|%33|EVET|%31
884|2026-09-11 18:51:20|1|4/2|HAYIR|%46|%22|EVET|%24|%39|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%34|C•B|EVET|%67|%53|DONGU_TERS_YON|FRAGMENTARY_2|
VADI>TEPE>DONGU_TERS|PATTERN_BREAK:0,59|EVET|%50|4|HAYIR|%30|EVET|%34|2|EVET|%20|EVET|%27|4|HAYIR|%30|EVET|%50|4|HAYIR|%20|EVET|%28|4|HAYIR|%
30|EVET|%33|4|HAYIR|%30|EVET|%43|3|HAYIR|%40|EVET|%32|3|HAYIR|%20|EVET|%43|1|HAYIR|%20|EVET|%27|4|HAYIR|%30|EVET|%30|4|HAYIR|%30|EVET|%64|1|H
AYIR|%30|EVET|%28|2|EVET|%30|EVET|%31
885|2026-09-11 18:51:22|2|2/4|EVET|%46|%22|HAYIR|%24|%25|0|HAYIR|%0|HAYIR|%0|4/2|HAYIR|%25|%34|C•K|EVET|%67|%53|TEPE_YON|WEAK_PERIODIC_3|TEPE
>TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%33|4|HAYIR|%27|EVET|%34|1|HAYIR|%27|EVET|%29|1|HAYIR|%27|EVET|%36|3|HAYIR|%18|EVET|%31|2|EVET|%27|EVET|%4
3|2|EVET|%27|EVET|%43|4|HAYIR|%36|EVET|%29|4|HAYIR|%18|EVET|%32|4|HAYIR|%18|EVET|%26|2|EVET|%27|EVET|%28|4|HAYIR|%27|EVET|%47|1|HAYIR|%27|EVE
T|%28|4|HAYIR|%36|EVET|%34
886|2026-09-11 18:51:23|2|1/2|HAYIR|%46|%22|HAYIR|%24|%33|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%32|T•K|HAYIR|%67|%53|VADI_YON|FRAGMENTARY_2|DONG
U_TERS>VADI>VADI|PATTERN_BREAK:0,61|EVET|%48|2|HAYIR|%25|EVET|%32|3|HAYIR|%25|EVET|%28|1|HAYIR|%25|EVET|%31|2|HAYIR|%16|EVET|%31|1|HAYIR|%33|
EVET|%42|1|HAYIR|%33|EVET|%58|4|EVET|%33|EVET|%28|4|EVET|%16|EVET|%36|4|EVET|%16|EVET|%26|1|HAYIR|%33|EVET|%31|2|HAYIR|%25|EVET|%75|1|HAYIR|%
25|EVET|%28|2|HAYIR|%33|EVET|%28
887|2026-09-11 18:51:25|4|4/1|EVET|%46|%22|HAYIR|%24|%43|0|HAYIR|%0|HAYIR|%0|4/1|EVET|%26|%32|T•K|HAYIR|%67|%53|VADI_YON|FRAGMENTARY_2|VADI>D
ONGU_TERS>VADI||HAYIR|%53|4|EVET|%23|EVET|%32|1|HAYIR|%23|EVET|%27|4|EVET|%23|EVET|%45|3|HAYIR|%15|EVET|%36|4|EVET|%30|EVET|%43|4|EVET|%30|EV
ET|%63|3|HAYIR|%38|EVET|%31|3|HAYIR|%23|EVET|%34|3|HAYIR|%23|EVET|%28|4|EVET|%30|EVET|%32|3|HAYIR|%23|EVET|%46|1|HAYIR|%23|EVET|%28|1|HAYIR|%
30|EVET|%27
888|2026-09-11 18:51:26|4|1/4|HAYIR|%46|%22|HAYIR|%24|%27|0|HAYIR|%0|HAYIR|%0|1/4|HAYIR|%25|%45|T•K|EVET|%67|%58|TEPE_YON|FRAGMENTARY_2|TEPE>
TEPE>TEPE|PATTERN_BREAK:0,59|EVET|%40|1|HAYIR|%28|EVET|%45|2|HAYIR|%21|EVET|%30|1|HAYIR|%28|EVET|%41|4|HAYIR|%14|EVET|%31|1|HAYIR|%35|EVET|%4
2|1|HAYIR|%35|EVET|%71|1|HAYIR|%35|EVET|%34|4|HAYIR|%21|EVET|%28|3|EVET|%21|EVET|%28|1|HAYIR|%35|EVET|%37|1|HAYIR|%21|EVET|%98|2|HAYIR|%21|EV
ET|%27|3|EVET|%28|EVET|%28
889|2026-09-11 18:51:29|3|3/2|EVET|%46|%22|HAYIR|%24|%39|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%25|%38|C•B|EVET|%67|%50|TEPE_YON|FRAGMENTARY_2|TEPE>D
ONGU_TERS>TEPE||HAYIR|%56|2|HAYIR|%26|EVET|%38|1|HAYIR|%20|EVET|%27|3|EVET|%26|EVET|%31|3|EVET|%13|EVET|%32|3|EVET|%33|EVET|%45|3|EVET|%33|EV
ET|%43|2|HAYIR|%33|EVET|%30|3|EVET|%20|EVET|%32|2|HAYIR|%26|EVET|%28|3|EVET|%33|EVET|%30|2|HAYIR|%20|EVET|%52|2|HAYIR|%20|EVET|%27|2|HAYIR|%3
3|EVET|%31
890|2026-09-11 18:51:53|3|2/3|HAYIR|%46|%22|HAYIR|%24|%32|0|HAYIR|%0|HAYIR|%0|1/2|EVET|%26|%38|C•K|EVET|%67|%52|VADI_YON|FRAGMENTARY_2|BLOK_T
ERS>DONGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%39|1|EVET|%25|EVET|%38|2|HAYIR|%18|EVET|%27|3|HAYIR|%31|EVET|%32|2|HAYIR|%18|EVET|%30|3|HAYIR|%3
7|EVET|%33|3|HAYIR|%37|EVET|%34|1|EVET|%31|EVET|%34|3|HAYIR|%25|EVET|%29|2|HAYIR|%25|EVET|%28|2|HAYIR|%37|EVET|%29|1|EVET|%18|EVET|%66|2|HAYI
R|%18|EVET|%27|2|HAYIR|%31|EVET|%30
891|2026-09-11 18:52:58|1|1/4|HAYIR|%46|%22|HAYIR|%23|%42|0|HAYIR|%0|HAYIR|%0|2/4|HAYIR|%26|%31|T•K|EVET|%67|%52|TEPE_YON|FRAGMENTARY_2|BLOK_
DUZ>DONGU_TERS>TEPE||HAYIR|%49|2|HAYIR|%29|EVET|%31|1|HAYIR|%17|EVET|%28|4|HAYIR|%29|EVET|%34|3|EVET|%17|EVET|%29|1|HAYIR|%35|EVET|%42|1|HAYI
R|%35|EVET|%35|3|EVET|%35|EVET|%32|4|HAYIR|%23|EVET|%32|1|HAYIR|%23|EVET|%26|1|HAYIR|%35|EVET|%28|4|HAYIR|%23|EVET|%59|1|HAYIR|%17|EVET|%26|2
|HAYIR|%29|EVET|%32
892|2026-09-11 18:53:54|3|3/4|EVET|%46|%22|HAYIR|%23|%41|0|HAYIR|%0|HAYIR|%0|3/4|EVET|%26|%45|C•B|EVET|%67|%51|VADI_YON|FRAGMENTARY_2|TEPE>DO
NGU_TERS>VADI|PATTERN_BREAK:0,59|EVET|%69|3|EVET|%27|EVET|%45|3|EVET|%16|EVET|%28|3|EVET|%27|EVET|%42|2|HAYIR|%22|EVET|%30|3|EVET|%33|EVET|%4
6|3|EVET|%33|EVET|%48|2|HAYIR|%38|EVET|%30|3|EVET|%22|EVET|%41|2|HAYIR|%22|EVET|%27|3|EVET|%33|EVET|%35|3|EVET|%22|EVET|%86|2|HAYIR|%16|EVET|
%28|3|EVET|%27|EVET|%30
893|2026-09-11 18:55:19|3|2/1|HAYIR|%1|%0|HAYIR|%0|%51|0|HAYIR|%0|HAYIR|%0|2/1|HAYIR|%0|%37|T•K|HAYIR|%1|%59|TEPE_YON|WEAK_PERIODIC_3|TEPE>TE
PE>TEPE||HAYIR|%65|2|HAYIR|%31|EVET|%37|1|HAYIR|%21|EVET|%27|2|HAYIR|%31|EVET|%36|2|HAYIR|%21|EVET|%31|2|HAYIR|%36|EVET|%42|2|HAYIR|%36|EVET|
%53|1|HAYIR|%36|EVET|%36|3|HAYIR|%26|EVET|%30|2|HAYIR|%21|EVET|%27|2|HAYIR|%36|EVET|%34|1|HAYIR|%26|EVET|%68|2|HAYIR|%15|EVET|%28|1|HAYIR|%31
|EVET|%31
```