

Http Talep Paketlerinde multipart/form-data ile Parametre Gönderimi

(+) Birebir denenmiştir ve başarıyla uygulanmıştır.

Gereksinimler

/var/www/formEncTypeTurleri/ // Ubuntu 18.04 LTS Ana Makina Web Dizini

Html <form alanları içerisinde yer alan girdi alanlarını (parametreleri) karşı sunucuya gönderirken <form alanı enctype attribute'una (özellikine) konulacak üç farklı değerle <form alanındaki parametreleri üç farklı syntax'ta karşı sunucuya gönderebiliriz.

- a) application/x-www-form-urlencoded (varsayılan)
- b) multipart/form-data
- c) text/plain

Html <form alanı enctype attribute'u (özellik) totalde yukarıdaki üç yoldan birini alır ve <form alanında tanımlı girdiler http talep paketinde parametre ve değer olarak belirtilen yola göre bir yapıda (syntax'da) taşınır. Bu durumu gözlemlemek için şimdi sırasıyla 3 farklı dosyada html <form alanı oluşturalım ve üç farklı enctype attribute değerini koyarak form alanını submit ettiğimizde parametrelerin http talep paketinde nasıl gönderiliyor olduğuna bakalım.

a) application/x-www-form-urlencoded (varsayılan)

Html <form alanında enctype attribute'u belirtilmediğinde (veya enctype attribute'u değeri olarak application/x-www-form-urlencoded değeri belirtildiğinde) form alanının girdileri karşılık & ile ardarda gönderilirler. Örneğin;

HTML / PHP:

/var/www/formEncTypeTurleri/formAlani1.php:

```
<form action="formAlani1.php" method="POST" enctype="application/x-www-form-urlencoded">
    <input type="text" name="param1">
    <input type="text" name="param2">
    <input type="submit" value="Gonder"/>
</form>
```

Form alanı submit'lendiğinde şu http talep paketi karşılık gider.

Http Request:

```
POST /formEncTypeTurleri/formAlani1.php HTTP/1.1
Host: 172.16.4.225
Content-Length: 32
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://172.16.4.225
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.82 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://172.16.4.225/formEncTypeTurleri/formAlani1.php
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9,tr;q=0.8
Connection: close
```

param1=fatih123¶m2=deneme123

Gördüğü gibi html <form> alanı enctype özelliği enctype="application/x-www-form-urlencoded" şeklinde olduğu için gönderilen http talep paketi Content-Type'ı application/x-www-form-urlencoded olmuştur ve bu nedenle gönderilen http talep paketi içerisindeki parametreler param1=value¶m2=value şeklinde ardarda & (ampersand) ile gönderilmiştir.

b) multipart/form-data

Html <form> alanında normal girdiler dışında "dosya girdisi" yer aldığı zaman bu türden girdinin application/x-www-form-urlencoded ile gönderimi yetersiz kalır. Çünkü bu girdiler büyük nicelikte binary veri veya ASCII olmayan karakter içeren veri gönderimi yapar. Bu durumda html <form> alanında enctype özelliğine multipart/form-data değeri koyulur. Bu şekilde html <form> alanında dosya içeren, yani ASCII olmayan veri içeren veya binary veri içeren girdilere sahip girdilerin submit'lenmesi mümkün hale gelir. Bu durumda html <form> alanındaki girdilerin gönderiminde parametre ve değerler & yerine daha geniş ebatlı parametre değerlerini alabilen bloklar halinde alt alta gönderilirler. Örneğin;

HTML / PHP:

/var/www/formEncTypeTurleri/formAlani2.php:

```
<form action="formAlani2.php" method="POST" enctype="multipart/form-data">
    <input type="text" name="param1">
    <input type="text" name="param2">
    <input type="file" name="param3">
    <input type="submit" value="Gonder"/>
</form>
```

Form alanı submit'lendiğinde şu http talep paketi karşılık gider:

Http Request:

```
POST /formEncTypeTurleri/formAlani2.php HTTP/1.1
Host: 172.16.4.225
Content-Length: 23435
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://172.16.4.225
Content-Type: multipart/form-data; boundary=----WebKitFormBoundary89aFVifbfEYaKAp
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.82 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://172.16.4.225/formEncTypeTurleri/formAlani2.php
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9,tr;q=0.8
Connection: close
```

-----WebKitFormBoundary89aFVifbfEYaKAp

Content-Disposition: form-data; name="**param1**"

// Parametre Adı (*)

fatih123

// Parametre Değeri

-----WebKitFormBoundary89aFVifbfEYaKAp

Content-Disposition: form-data; name="**param2**"

// Parametre Adı (*)

deneme123

// Parametre Değeri

-----WebKitFormBoundary89aFVifbfEYaKAp

Content-Disposition: form-data; name="**param3**"; filename="icon.png"

// Parametre Adı (*)

Content-Type: image/png

// Parametre Değeri

\89PNG#00\00\00IHDR\00\00#\00\00\00#\00##\00\00\00\r\A8\f\00\00\00pHYs\00\00##\00\00###\00\9A\9C#\00\00BAiTXML:com.adobe.xmp\00\00\00\00\00<?xpacket begin="" id="W5M0MpCehiHzreSzNTczkc9d"?>

<x:xmpmeta xmlns:x="adobe:ns:meta/" x:xmptk="Adobe XMP Core 5.6-c014 79.156797, 2014/08/20-09:53:02">

<rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#">

<rdf:Description rdf:about="">

xmlns:xmp="http://ns.adobe.com/xap/1.0/"

xmlns:dc="http://purl.org/dc/elements/1.1/"

xmlns:xmpMM="http://ns.adobe.com/xap/1.0/mm/"

xmlns:stEvt="http://ns.adobe.com/xap/1.0/sType/ResourceEvent#"

xmlns:stRef="http://ns.adobe.com/xap/1.0/sType/ResourceRef#"

xmlns:photoshop="http://ns.adobe.com/photoshop/1.0/"

xmlns:tiff="http://ns.adobe.com/tiff/1.0/"

xmlns:exif="http://ns.adobe.com/exif/1.0/">

<xmp:CreateDate>2015-11-21T10:16:55Z</xmp:CreateDate>

<xmp:ModifyDate>2015-11-21T17:33:16+05:30</xmp:ModifyDate>

<xmp:MetadataDate>2015-11-21T17:33:16+05:30</xmp:MetadataDate>

<xmp:CreatorTool>Adobe Photoshop CC 2014 (Macintosh)</xmp:CreatorTool>

<dc:format>image/png</dc:format>

<xmpMM:History>

<rdf:Seq>

<rdf:li rdf:parseType="Resource">

<stEvt:action>converted</stEvt:action>

<stEvt:parameters>from image/png to application/vnd.adobe.photoshop</stEvt:parameters>

</rdf:li>

<rdf:li rdf:parseType="Resource">

<stEvt:action>saved</stEvt:action>

<stEvt:instanceID>xmp.iid:33380B0C1F20681183D198339A97386A</stEvt:instanceID>

<stEvt:when>2015-11-21T16:00:27+05:30</stEvt:when>

<stEvt:changed>/</stEvt:changed>

</rdf:li>

<rdf:li rdf:parseType="Resource">

<stEvt:action>converted</stEvt:action>

<stEvt:parameters>from image/png to application/vnd.adobe.photoshop</stEvt:parameters>

</rdf:li>

<rdf:li rdf:parseType="Resource">

<stEvt:action>saved</stEvt:action>

<stEvt:instanceID>xmp.iid:34380B0C1F20681183D198339A97386A</stEvt:instanceID>

<stEvt:when>2015-11-21T16:00:27+05:30</stEvt:when>

<stEvt:changed>/</stEvt:changed>

</rdf:li>

<rdf:li rdf:parseType="Resource">

<stEvt:action>saved</stEvt:action>

<stEvt:instanceID>xmp.iid:5e3a38f5-78a2-45c3-aada-2da2597e41a3</stEvt:instanceID>

<stEvt:when>2015-11-21T17:33:16+05:30</stEvt:when>

<stEvt:softwareAgent>Adobe Photoshop CC 2014 (Macintosh)</stEvt:softwareAgent>

<stEvt:changed>/</stEvt:changed>

</rdf:li>

<rdf:li rdf:parseType="Resource">

<stEvt:action>converted</stEvt:action>

<stEvt:parameters>from application/vnd.adobe.photoshop to image/png</stEvt:parameters>

</rdf:li>

<rdf:li rdf:parseType="Resource">

<stEvt:action>derived</stEvt:action>

<stEvt:parameters>converted from application/vnd.adobe.photoshop to image/png</stEvt:parameters>

</rdf:li>

<rdf:li rdf:parseType="Resource">

<stEvt:action>saved</stEvt:action>

<stEvt:instanceID>xmp.iid:f1945919-5f0f-47f0-ad3e-e894540d7ca1</stEvt:instanceID>

<stEvt:when>2015-11-21T17:33:16+05:30</stEvt:when>

<stEvt:softwareAgent>Adobe Photoshop CC 2014 (Macintosh)</stEvt:softwareAgent>

<stEvt:changed>/</stEvt:changed>

</rdf:li>

</rdf:Seq>

</xmpMM:History>

<xmpMM:DerivedFrom rdf:parseType="Resource">

<stRef:instanceID>xmp.iid:5e3a38f5-78a2-45c3-aada-2da2597e41a3</stRef:instanceID>

<stRef:documentID>xmp.did:33380B0C1F20681183D198339A97386A</stRef:documentID>

<stRef:originalDocumentID>xmp.did:33380B0C1F20681183D198339A97386A</stRef:originalDocumentID>

</xmpMM:DerivedFrom>

<xmpMM:DocumentID>adobe:docid:photoshop:45ed2120-d0d6-1178-9554-c050520b6f31</xmpMM:DocumentID>

<xmpMM:InstanceID>xmp.iid:f1945919-5f0f-47f0-ad3e-e894540d7ca1</xmpMM:InstanceID>

<xmpMM:OriginalDocumentID>xmp.did:33380B0C1F20681183D198339A97386A</xmpMM:OriginalDocumentID>

<photoshop:ColorMode>3</photoshop:ColorMode>

<tiff:Orientation>1</tiff:Orientation>

<tiff:XResolution>720000/10000</tiff:XResolution>

<tiff:YResolution>720000/10000</tiff:YResolution>

<tiff:ResolutionUnit>2</tiff:ResolutionUnit>

<exif:ColorSpace>65535</exif:ColorSpace>

```

<exif:PixelXDimension>256</exif:PixelXDimension>
<exif:PixelYDimension>256</exif:PixelYDimension>
</rdf:Description>
</rdf:RDF>
</x:xmpmeta>

```

<?xpacket end="w"?>#!\\D1:\\00\\00\\00 cHRM\\00\\00z%\\00\\00\\80\\83\\00\\00\\F9\\FF\\00\\00\\80\\E9\\00\\00u\\00\\00\\EA`\\00\\00:\\98\\00\\00#o\\92_\\
C5F\\00\\00\\#BIDATx\\DA\\EC\\9DytU\\E5\\B9\\C6 \\V7\\E4\\84\\F\"H\\80\\F\\900\\#Z\\`\\AD\\AD8\\B5\\#A0\\A2\\#DB\\{\\97\\CA\\Fu\\AC\\B3uhqhK\\AE\\
D5ZZK\\D1\\#A2\\E2\\VVA1\\B5\\#T+*X81@\\E#e\\#88\"98\\90\\81\\93\\E4\\DC\\?F6\\#9\\C3\\>\\E7\\{\\EF\\E7\\B7\\D6\\#89g\\9\\FE7\\{\\DFg\\F3\\#q\\UE1\\
F2\\81\\#E6\\EA\\#F4\\#6W\\CF6W\\P>\\P\\D\\CC\\CF\\ED\\#h\\#9A\\81Z\\F3\\F3N\\E0\\F36W\\8D\\F9s\\#\\B0\\#\\F8\\c\\Nx\\94\\88\$\\F0\\#\\C0\\`\\A0\\#\\|92\\BD\\
BF\\B9\\#u\\F13\\F6\\99BY\\#BF\\F7\\A91\\83\\8D\\C0\\#\\A0\\DA\\k\\8D\\A9\\#\\80\\H\\\"4p,0\\###,\\BD\\DFC\\CDu\\BBo\\#D6\\#EF\\^\\A5\\C0\\BB\\
C0\\#\\B1\\=\\84\\D4\\#\\C8:\\E5\\C08\\AC\\B9\\86\\FA\\9B\\81\\D5\\C0\\B\\E6\\CD4\\84\\#\\#E3\\81\\99kh\\C0\\F5\\A8\\#\\#FE\\#,\\EA\\#\\\"20\\BF\\
D1\\#8\\#\\98\\80\\D3\\#BE\\#\\B0\\#\\F8\\B3\\B96K\\#\\80\\97\\AB\\F6\\E7\\#\\c\\80\\B0\\\$\\188\\#\\F060\\#\\98\\#,\\Id\\00\\B6\\D3\\C3\\\$\\FC\\\$\\Whg\\#\\K\\809\\E6\\
DA\\Id\\00\\D6h\\AA\\F5S\\81\\B3\\81\\<\\T92\\V\\9AL\\AD\\`\\A6i\\,(\\80\\00Y\\AB\\E2O\\#\\AE\\#*\\GVX\\#\\FC\\#\\98\\F5\\#\\92\\B\\U\\D4\\C4\\#\\CC\\#\\~\\AE\\
E4\\CF*\\95\\A6\\>\\e2\\B9\\2\\C8\\00\\D2\\U\\CD\\?\\#g\\A8j\\#p\\1\\90\\+\\Y\\AC\\`\\n\\C9SF\\A\\7\\992\\#\\280\\94\\#\\EB\\#\\B0\\008\\Y\\92\\X\\CFC\\9\\C0\\#\\A6\\CC\\.|\\97\\Q\\
CB\\00\\92\\M\\FC\\A9\\C0\\#\\C0\\#\\80\\|\\92\\C4\\s\\e\\F7\\81\\K\\#\\81 \\=\\#D6\\E0\\t\\F5\\97\\\$\\9E\\A\\7\\BF\\CB\\5\\A6\\#\\F32\\80\\#\\F9\\#\\CE\\□\\ c\\K\\T\\9A\\B2\\
FD\\A7\\k\\#\\00\\E0\\#\\A1\\B9\\86\\K\\#\\DF\\3\\AC\\My\\#\\96\\#\\A7\\EE\\C0\\C3\\C0\\FBz\\#\\B6\\C6\\F7\\0\\#\\#D\\De\\0\\C1\\!\\84\\3\\y\\#\\p\\=\\D0\\MB\\9\\X\\BA\\
99\\#\\Xgb\\\$\\#\\F0\\7\\83\\p\\A6\\8F\\>\\86\\B3\\e\\96\\#\\98\\X\\xg\\9\\F2\\#\\80\\FF\\88\\00\\B7\\E2\\t\\F2\\9\\D\\A8\\x\\#\\9D\\0\\CE\\#\\n\\B\\Be\\#\\C1\\0\\0\\F\\#\\FB\\F9\\EAF\\98\\B\\
B4\\DF\\C4\\CA\\2\\9\\C\\AD\\D\\9d\\0\\#\\~\\EA\\DF\\#\\BC\\#\\A\\9\\B\\#\\r\\\$\\#\\88\\C\\0\\m\\FD\\7\\81\\D\\12\\`\\B\\5\\87\\3\\&\\96\\8\\E\\90\\#\\x\\83\\)\\A\\A\\9\\BE\\89\\8\\C\\1\\#\\g\\G\\
E3\\C\\B\\e\\0\\#\\F\\6\\R\\#\\#\\FC\\D\\1\\FC\\,\\84\\DB\\F\\1\\F\\5\\#\\c\\C\\5\\2\\0\\#\\B\\B\\#\\B\\C\\#\\L\\V\\9\\C\\8\\A\\4\\3\\D\\9\\C\\4\\Z\\95\\C\\0\\#\\&\\99\\#\\AC\\D\\8\\#\\|\\E\\0\\5\\B\\1\\#\\C\\8\\E\\2\\B\\D\\#\\
0\\0\\CC\\U\\95_d\\A\\9\\I\\0\\D\\7\\C\\4\\`\\8\\E\\B\\3\\9\\4\\0\\0\\C\\F\\#\\?\\A\\B\\F\\8\\EC\\2\\F\\8\\BC\\8\\9\\I\\#\\@\\A\\8\\0\\#\\D\\E\\C\\0\\D\\9\\F\\6\\I\\#\\98\\h\\B\\2\\B\\#\\90\\F\\E\\3\\#\\A\\1\\e\\
B\\B\\C\\2\\6\\8\\6\\9\\B\\D\\#\\#\\H\\#\\D\\F\\C\\1\\Y\\C\\8\\S\\A\\E\\#\\96\\R\\n\\F\\4\\T\\#\\8\\0\\B\\B\\8\\2\\S\\V\\9\\C\\:\\F\\B\\8\\4\\E\\D\\#\\9\\B\\>\\8\\1\\K\\e\\0\\#\\E\\E\\p\\-\\C\\E\\C\\1\\#\\A\\9\\A\\D\\2\\+\\B\\C\\B\\g\\B\\
8\\0\\2\\J\\P\\9\\8\\E\\z\\F\\A\\8\\5\\F\\7\\#\\9\\9 \\c\\D\\D\\v\\A\\7\\B\\2\\9\\5\\F\\B\\8\\C\\#\\#\\A\\8\\]\\C\\3\\q\\=\\D\\F\\F\\X\\F\\7\\U\\F\\4\\+\\F\\A\\8\\4\\8\\3\\F\\3\\(\\8\\E\\C\\#\\A\\0\\A\\E\\B\\9\\8\\S\\C\\A\\
F\\8\\x\\#\\A\\B\\v\\E\\3\\A\\D\\D\\K\\D\\D\\U\\#\\C\\D\\#\\E\\C\\5\\Y\\b\\A\\5\\#\\D\\8\\z\\6\\E\\0\\p\\9\\B\\#\\,\\A\\9\\9\\1\\9\\7\\D\\3\\L\\}\\9\\F\\E\\5\\8\\2\\O\\q\\X\\E\\1\\E\\6\\8\\4\\~\\ws\\#\\E\\6\\~\\#\\C\\F\\1\\:\\8\\7\\A\\6\\#
9\\D\\w\\E\\A\\#\\I\\d\\0\\0\\F\\1\\9\\E\\6 \\f\\D\\4\\F\\8\\F\\A\\F\\W\\B\\9\\A\\1\\E\\A\\#\\C\\A\\R\\,\\3\\s\\[\\C\\9\\#\\A\\F\\B\\9\\9\\E\\W\\B\\6\\F\\Q\\ \\d\\5\\D\\e\\A\\D\\3\\E\\5\\#\\r\\\$\\#\\B\\7\\M\\F\\7\\s\\p\\9\\7\\E\\2\\\$\\
8\\5\\#\\B\\5\\F\\0\\9\\3\\A\\1\\B\\1\\n\\F\\0\\0\\8\\A\\s\\E\\B\\R\\~\\B\\F\\E\\2\\D\\C\\:\\N\\9\\F\\4\\o\\F\\4\\C\\C\\D\\B\\p\\C\\F\\C\\6\\#\\D\\3\\N\\F\\2\\A\\9\\0\\C\\E\\F\\C\\F\\9\\w\\#\\C\\0\\W\\B\\9\\x\\P\\1\\9\\2\\<\\E\\1\\P\\+\\#\\8\\D\\
B\\C\\9\\9\\D\\3\\F\\B\\,\\p\\F\\D\\B\\D\\8\\7\\9\\6\\V\\s\\x\\p\\B\\C\\B\\C\\E\\D\\d\\#\\B\\A\\9\\3\\M\\8\\5\\F\\1\\C\\0\\N\\9\\C\\5\\D\\#\\K\\D\\9\\9\\8\\C\\D\\3*\\R\\E\\0\\|\\8\\7\\9\\A\\9 \\J\\B\\4\\B\\D\\F\\F\\I\\B\\D\\#\\q\\S\\
D\\5\\C\\:\\u\\A\\6\\c\\C\\9\\D\\2\\u\\#\\\"C\\E\\F\\z\\#\\A\\C\\4\\D\\2\\E\\6\\ \\8\\5\\#\\F\\A\\=\\9\\5\\F\\6\\C\\F\\B\\F\\D\\F\\<\\B\\E\\Y\\F\\E\\8\\A\\0\\#\\8\\0\\9\\F\\9\\3\\8\\3\\n\\0\\#\\9\\E\\F\\8\\7\\s\\
A\\4\\D\\-\\N\\7\\U\\=\\9\\C\\B\\1\\#\\A\\9\\E\\A\\a\\#\\\$\\j\\#\\E\\6\\9\\#\\#\\A\\4\\#\\F\\4\\#\\D\\E\\|\\A\\8\\X\\H\\8\\D\\#\\O\\S\\H\\F\\8\\E\\8\\C\\|\\D\\E\\|\\F\\9\\8\\A\\F\\E\\2\\#\\9\\F\\8\\5\\#\\#\\8\\2\\f\\0\\0\\A\\5\\
C\\0\\8\\B\\@\\9\\9\\B\\C\\#\\#\\E\\8\\F\\7\\V\\7\\>\\3\\D\\L\\E\\2\\A\\7\\N\\#\\F\\0\\8\\j\\8\\C\\9\\3\\8\\D\\9\\9\\8\\0\\9\\#\\+\\j\\#\\A\\F\\#\\)\\A\\D\\A\\6\\O\\C\\1\\9\\6\\B\\8\\#\\m\\C\\d\\e\\F\\E\\A\\6\\E\\F\\F\\1\\E\\2\\:\\A\\C\\
A\\f\\u\\N\\A\\A\\F\\Y\\C\\F\\C\\4\\D\\E\\#\\9\\A\\7\\E\\F\\r\\C\\3\\O\\y\\O\\C\\1\\#\\A\\A\\D\\7\\P\\B\\D\\(\\8\\8\\!\\u\\8\\6\\O\\#\\g\\~\\7\\8\\0\\8\\1\\D\\3\\U\\6\\E\\E\\p\\D\\C\\C\\1\\o\\C\\7\\F\\D\\س\\A\\6\\2\\~\\B\\4\\E\\C\\
9\\7_\\9\\9\\E\\6\\B\\B\\r\\D\\7\\p\\V\\E\\E\\#\\C\\F\\3\\C\\`\\F\\A\\8\\E\\(\\8\\9\\E\\B\\F\\D\\8\\E\\?\\F\\8\\#\\8\\0\\9\\C\\#\\E\\6\\C\\1\\d\\B\\A\\p\\9\\6\\F\\2\\F\\C\\A\\3\\A\\3\\t\\U\\A\\F\\D\\B\\D\\B\\ا\\C\\3\\
E\\4\\o\\~\\D\\D\\U\\F\\Ch\\D\\9\\i\\8\\E\\C\\5\\F\\7\\#\\Z\\B\\A\\Z\\#\\E\\0\\w\\d\\F\\A\\E\\1\\9\\8\\i\\#\\h\\A\\A\\F\\E\\9\\1\\B\\E\\9\\B\\E\\2\\z\\D\\D\\F\\C\\M\\ok\\8\\1\\c\\D\\D\\U\\<\\B\\7\\E\\9\\B\\B\\q\\
B\\D\\g\\E\\9\\C\\9\\F\\-\\E\\2\\d\\r\\E\\4\\p\\B\\F\\#\\@\\!\\0\\#\\~\\#\\D\\E\\E\\A\\F\\8\\2\\A\\D\\#\\E\\3\\~\\C\\F\\#\\B\\6\\9\\C\\E\\6\\E\\A\\g\\8\\B\\8\\4\\#\\9\\E\\#\\C\\A\\3\\c\\9\\9\\2\\8\\0\\a*\\D\\B\\4\\8\\k\\A\\4\\>\\A\\E\\
D\\7\\F\\D\\E\\B\\C\\B\\F\\8\\F\\B\\D\\#_\\D\\F\\#\\A\\8\\C\\8\\#\\A\\E\\3\\C\\C\\E\\4\\L\\D\\A\\C\\S\\D\\#\\E\\0\\e\\E\\8\\G\\F\\D\\A\\C\\8\\u\\T\\V\\7\\9\\1\\F\\9\\F\\B\\A\\D\\B\\1\\F\\8\\^\\9\\B\\#\\j\\q\\F\\D\\F\\B\\8\\C\\
B\\8\\L\\A\\E\\2\\0\\#\\x\\gg\\#\\C\\F\\D\\6\\0\\0\\8\\E\\0\\0\\F\\E\\G\\9\\9\\#\\#\\F\\9\\0\\E\\E\\D\\7\\~\\A\\D\\F\\8\\#\\3\\H\\F\\3\\A\\9\\C\\4\\E\\9\\4\\8\\0\\`\\6\\D\\A\\C\\8\\D\\3\\N\\E\\B\\#\\F\\F\\C\\1\\8\\9\\B\\D\\#\\J\\0\\
(\\2\\9\\9\\4\\E\\B\\E\\#\\B\\8\\#\\F\\e\\h\\#\\E\\7\\U\\~\\C\\3\\C\\0\\8\\j\\#\\K\\>\\E\\4\\`\\g\\9\\8\\=\\#\\C\\7\\C\\8\\I\\9\\7\\#\\#\\B\\2\\B\\3\\8\\7\\n\\E\\1\\B\\D\\C\\C\\#\\)\\8\\3\\j\\>\\8\\@\\F\\2\\A\\F\\c\\C\\6\\E\\8\\k\\E\\8\\#\\D\\+\\
C\\1\\E\\C\\2\\6\\9\\3\\S\\A\\E\\9\\3\\8\\E\\N\\C\\0\\<\\9\\C\\A\\5\\8\\E\\D\\A\\C\\6\\D\\B\\2\\#\\C\\9\\D\\F\\C\\1\\c\\.\\E\\5\\E\\9\\O\\C\\E\\5\\#\\#\\D\\9\\P\\7\\0\\0\\8\\0\\#\\C\\5\\#\\A\\D\\F\\7\\#\\Y\\x\\&\\E\\E\\A\\9\\C\\0\\\"\\
A\\3\\禱\\#\\#\\D\\9\\n\\0\\0\\B\\7\\#\\C\\U\\f\\9\\2\\#\\8\\E\\r\\Q\\F\\9\\F\\D\\4\\ \\8\\E\\C\\4\\F\\0\\#\\C\\q\\A\\6\\B\\B\\A\\S\\B\\6\\D\\B\\M\\8\\0\\a\\X\\B\\8\\F\\3\\A\\9\\#\\>\\E\\1\\F\\v\\D\\E\\7\\#\\F\\C\\9\\6\\4\\F\\6\\x\\F\\4\\
A\\E\\#\\D\\D\\j\\~\\E\\D\\E\\B\\E\\4\\A\\C\\\$\\D\\C\\C\\(\\B\\0\\C\\B\\=\\7\\^\\E\\1\\E\\A\\F\\B\\C\\5\\B\\Z\\#\\e\\D\\#\\8\\6\\D\\3\\X\\2\\9\\6\\9\\D\\C\\>\\A\\E\\C\\0\\#\\A\\F\\#\\A\\D\\B\\6\\#\\C\\0\\9\\5\\C\\0\\#\\
A\\F*\\#\\8\\A\\E\\#\\D\\C\\9\\8\\F\\F\\C\\B\\A\\C\\5\\#\\k\\u\\&\\F\\A\\8\\4\\P\\A\\C\\9\\9\\9\\C\\E\\8\\A\\7\\E\\4\\D\\%\\#\\B\\F\\F\\6\\#\\8\\B\\C\\7\\S\\D\\F\\c\\#\\B\\1\\9\\0\\g\\9\\F\\S\\l\\A\\E\\F\\d\\&\\@\\w\\9\\C\\F\\D\\
F\\C\\=\\#\\%\\~\\M\\~\\E\\D\\A\\B\\J\\~\\#\\k\\#\\B\\F\\F\\6\\U\\v\\F\\C\\9\\A\\P\\C\\C\\#\\9\\D\\F\\7\\9\\A\\9\\C\\B\\3\\C\\6\\0\\0\\E\\C\\2\\#\\F\\B\\#\\E\\E\\8\\A..\\j\\%\\H\\@\\C\\8\\m\\A\\8\\A\\6\\p\\E\\7\\<\\
8\\5\\2\\9\\C\\#\\A\\+\\`\\p\\9\\5\\B\\7\\D\\B\\F\\C\\8\\B\\9\\5\\#\\#\\B\\F\\V\\1\\9\\r\\x\\^\\F\\E\\9\\B\\D\\C\\#\\<\\8\\2\\8\\7\\F\\E\\F\\2\\k\\g\\F\\E\\#\\E\\1\\Z\\M\\D\\9\\{\\B\\7\\#\\<\\9\\C\\m\\#\\F\\8\\#\\{\\F\\E\\#\\A\\E\\#\\
A\\E\\#\\B\\6\\#\\E\\0\\F\\9\\B\\2\\?\\C\\D\\E\\4\\`\\V\\x\\F\\E\\9\\8\\9\\p\\B\\3\\6\\B\\5\\#\\9\\F\\E\\(\\F\\B\\8\\7\\R\\C\\9\\E\\3\\T\\8\\6\\#\\E\\3\\8\\3\\M\\2\\>\\O\\W\\A\\4\\#\\ \\C\\F\\1\\f\\r\\q\\v\\&\\#\\B\\8\\G\\#\\
9\\#\\W\\H\\#\\E\\1\\6\\F\\7\\0\\0\\s\\8\\1\\8\\4\\C\\7\\6\\9\\3\\A\\D\\L\\#\\#\\H\\w\\!\\A\\C\\`\\8\\0\\C\\9\\R\\F\\4\\D\\D\\0\\R_\\!\\E\\3\\D\\6\\d\\F\\4\\C\\9\\#.\\F\\A\\x\\O\\E\\F\\`\\L\\9\\D\\#\\A\\3\\#\\A\\1\\B\\0\\B\\0\\
B\\1_\\~\\E\\f\\8\\5\\E\\A\\x\\F\\9\\8\\5\\D\\F\\4\\F\\A\\F\\A\\F\\A\\#\\9\\6\\A\\D\\A\\8\\F\\E\\6\\A\\C\\g\\f\\{\\D\\0\\k\\#\\9\\E\\2\\,\\N\\#\\D\\C\\#\\F\\4\\E\\4\\9\\F\\F\\1\\8\\B\\D\\#\\{\\e_\\
B\\8\\N\\a\\#\\C\\O\\#\\O_\\D\\C\\N\\9\\F\\8\\2\\ \\C\\7\\F\\5\\x\\E\\E\\F\\2\\#\\p\\賠\\A\\6\\N\\9\\8\\7\\9\\2\\h\\h\\#\\%\\N\\y\\~\\A\\9\\7\\a\\8\\8\\C\\9\\V\\#\\C\\0\\C\\D\\A\\w\\x\\D\\4\\H\\9\\D\\8\\5\\g\\+\\G\\A\\B\\
C\\1\\F\\D\\8\\1\\8\\0\\9\\1\\C\\0\\#\\U\\9\\U\\E\\D\\B\\7\\B\\6\\F\\2\\#\\8\\C\\7\\B\\9\\E\\A\\B\\#\\F\\C\\X\\D\\#\\0\\W\\A\\0\\#\\8\\A\\B\\A\\E\\1\\C\\7\\E\\9\\B\\9\\A\\#\\|\\8\\6\\F\\A\\#\\@\\D\\L\\C\\E\\6\\
F\\5\\@\\#\\W\\H\\9\\7\\F\\1\\8\\4\\#\\9\\9\\E\\0\\#\\#\\K\\B\\5\\#\\0\\8\\1\\9\\E\\W\\8\\4\\p\\8\\5\\A\\9\\3\\D\\Ch\\L\\9\\5\\B\\6\\X\\B\\6\\9\\0\\2\\#\\F\\4\\Z\\8\\E\\B\\x\\9\\2\\B\\3\\M\\#\\m\\0\\9\\3\\p\\8\\E\\
F\\A\\B\\x\\8\\F\\<\\9\\3\\C\\3\\#\\C\\0\\E\\D\\2\\P\\0\\9\\3\\B\\4\\#\\F\\4\\N\\9\\0\\B\\x\\9\\A\\q\\#\\N\\C\\0\\8\\1\\E\\0\\#\\Y\\\$\\8\\4\\B\\0\\8\\B\\0\\C\\9\\E\\5\\8\\4\\E\\0\\#\\i\\8\\4\\B\\F\\9\\B\\#\\9\\D\\#\\C\\0\\A\\C\\0\\
B\\1\\D\\2\\M_\\0\\C\\6\\E\\4\\#\\D\\C\\p\\8\\6\\A\\A\\F\\B\\F\\8\\A\\A\\#\\P\\F\\#\\p\\8\\A\\4\\#\\C\\2\\W\\#\\A\\C\\8\\N\\9\\6\\B\\8\\8\\A\\o\\D\\2\\C\\1\\C\\9\\E\\p\\#\\E\\D\\8\\5\\b\\E\\9\\%\\8\\4\\A\\F\\A\\6\\8\\3\\a\\
F\\D\\8\\E\\^\\A\\2\\B\\4\\#\\ L\\8\\C\\C\\7\\0\\B\\E\\-\\9\\D\\8\\4\\F\\0\\#\\A\\7\\t\\0\\B\\D\\8\\0\\V\\E\\1\\D\\2\\1_\\2\\9\\C\\B\\3\\#\\D\\B\\#\\C\\0\\8\\9\\D\\2\\H\\#\\3\\E\\E\\@\\#\\0\\N\\F\\A\\#\\E\\1\\k\\N\\<\\9\\#\\C\\
F\\A\\#\\E\\1\\k\\N\\E\\8\\C\\C\\0\\0\\8\\A\\q\\C\\E\\#\\#\\B\\F\\8\\7\\A\\B\\4\\#\\E\\6\\o\\k\\0\\G\\#\\9\\D\\2\\G_\\9\\3\\#\\#\\h\\F\\1\\8\\F\\#\\C\\1\\T\\g\\5\\0\\!\\8\\4\\F\\F\\9\\B\\A\\#\\#\\]\\8\\4\\#\\#\\D\\B\\#\\@\\#\\P\\
B\\A\\#\\#\\9\\A\\9\\C\\D\\f\\0\\0\\8\\3\\Q\\#\\A\\0\\#\\A\\C\\7\\E\\4\\F\\C\\~\\#\\D\\0\\C\\1\\E\\A\\B\\#\\8\\B\\A\\1\\m\\`\\A\\8\\F\\4\\#\\P\\k\\0\\0\\9\\5\\D\\2\\C\\8\\8\\@\\Q\\D\\9\\D\\6\\0\\#\\D\\B\\#\\A\\8\\#\\
8\\0\\#\\A\\A\\#\\D\\0\\#\\H\\z\\#\\7\\8\\9\\c\\D\\A\\E\\6\\B\\F\\2\\覗\\%\\8\\6\\9\\D\\#\\#\\8\\F\\0\\#\\D\\2\\B\\8\\B\\C\\9\\D\\E\\X\\3\\B\\7\\]\\\\8\\E\\8\\5_\\A\\C\\D\\A\\F\\F\\o\\W\\#\\:\\C\\2\\D\\8\\G\\E\\E\\8\\#\\
8\\4\\[\\Q\\4\\#\\C\\D\\G\\s\\y\\B\\B\\v\\C\\3\\F\\E\\9\\B\\F\\1\\E\\9\\\"9\\9\\8\\0\\9\\D\\F\\4\\8\\D\\p\\8\\0\\8\\3\\#\\8\\5\\H\\8\\4\\m\\D\\1\\F\\9\\E\\1\\8\\7\\O\\F\\0\\A\\C\\3\\F\\6\\A\\F\\F\\C\\9\\F\\L\\C\\0\\C\\A\\e\\0\\C\\2\\#\\
D\\6\\5\\E\\C\\0\\#\\E\\B\\9\\F\\D\\B\\D\\#\\E\\7\\#\\D*\\B\\C\\S\\B\\7\\9\\1\\A\\B\\D\\7\\C\\F\\E\\5..\\8..\\+_\\#\\B\\8\\0\\A\\B\\2\\#\\P\\#\\D\\B\\2\\,\\F\\C\\b\\#\\B\\7\\]\\\\8\\E\\B\\D\\B\\1\\E\\6\\
B\\8\\ G\\ &\\`\\9\\7\\#\\#\\F\\E\\B\\4\\E\\3\\M\\A\\6\\m\\F\\E\\+\\A\\D\\C\\4\\#\\F\\E\\9\\8\\0\\#\\F\\C\\8\\7\\@\\\$\\L\\8\\C\\#\\n\\~\\8\\9\\?\\E\\E\\X\\9\\2\\F\\4\\{\\8\\4\\Q\\#\\E\\E\\&\\1\\B\\3\\K\\F\\7\\#\\P\\#\\D\\
B\\C\\4\\O\\(\\9\\A\\1\\0\\F\\7\\U\\9\\C\\C\\5\\w\\{\\8\\E\\9\\0\\A\\0\\8\\8\\2\\#\\8\\A\\8\\E\\9\\h\\8\\C\\?\\Q\\F\\2\\u\\F\\C\\r\\C\\0\\\$\\#\\9\\2\\A\\0\\Y\\4\\#\\E\\4\\K\\#\\D\\1_\\F\\2\\8\\3\\#\\g\\B\\3\\A\\E\\a\\G\\D\\1\\V\\C\\0\\o*\\3\\
A\\2\\H\\s\\C\\F\\I\\B\\g\\8\\6\\ix\\C\\6\\F\\8\\B\\B\\A\\2\\B\\C\\)\\3\\#\\B\\F\\8\\4\\C\\A\\:\\Y\\d\\#\\8\\8\\H\\#\\D\\1\\K\\7\\C\\D\\G\\F\\1\\8\\D\\F\\1\\w\\F\\e\\#\\#\\3\\#\\B\\F\\8\\4\\F\\2\\n\\A\\5\\#\\D\\4..\\#\\A\\0\\H..\\
8\\8\\E\\E\\H\\8\\C\\B\\F\\G\\#\\G\\6\\+\\D\\3\\=\\R\\(\\A\\E\\D\\A\\3\\H\\O\\ \\D\\1\\A\\9\\8\\C\\F\\1\\E\\F\\C\\A\\#\\F\\9\\D\\5\\D\\7\\&\\Q\\A\\0\\E\\1\\ \\A\\B\\0\\0\\9\\2\\@\\B\\4\\e\\D\\F\\F\\E\\Y\\D\\E\\L\\
E\\9\\}\\C\\E\\E\\C\\q\\#\\F\\7\\F\\7\\B\\8\\B\\H\\H\\9\\B\\M\\C\\B\\0\\8\\4\\p\\8\\C\\#\\E\\0\\F\\2\\c\\B\\8\\B\\1\\C\\F\\)\\8\\4\\#\\I\\T\\#\\#\\@\\=\\A\\0\\Z\\C\\0\\q\\C\\8\\?\\D\\8\\#\\F\\B\\9\\C\\C\\2\\E\\5\\B\\D\\H\\p\\
B\\0\\#\\D\\A\\5\\C\\B\\0\\q\\C\\8\\C\\B\\3\\F\\B\\9\\F\\E\\7\\D\\9\\#\\J\\5\\8\\3\\B\\d\\#\\p\\8\\C_\\B\\3\\F\\B\\A\\]\\\\D\\8\\#\\E\\C\\N\\~\\B\\7\\L\\C\\0\\A\\D\\1\\F\\1\\#\\F\\8\\#\\B\\8\\#\\E\\3\\B\\1\\v\\)\\8\\D\\#\\A\\8\\M\\C\\D\\.#\\
8\\0\\G\\9\\2\\U\\p\\k\\8\\C_\\B\\3\\F\\B\\C\\5\\#\\A\\0\\F\\x\\#\\F\\9\\3\\5\\#\\C\\6\\F\\8\\A\\B\\3\\F\\B\\H\\M\\#\\D\\8\\#\\A\\B\\C\\9\\F\\C\\8\\9\\A\\8\\0\\#\\C\\F\\C\\A\\0\\D\\9\\~\\6\\8\\0\\m\\D\\2\\!\\{\\C\\4\\
E\\8\\8\\E\\B\\V\\C\\A\\#\\D\\3\\E\\3\\D\\7\\E\\C\\>\\B\\3\\M\\#\\9\\0\\e\\A\\E\\>\\t\\C\\2\\F\\E\\9\\A\\8\\0\\9\\B\\&\\E\\0\\C\\6\\#\\ N\\(\\C\\C\\F\\D\\F\\C\\E\\E\\2\\A\\C\\#\\#\\T\\P\\>\\6\\8\\0\\m\\D\\2\\C\\1_\\&\\E\\0\\
C\\6\\#\\B\\F\\F\\7\\#\\8\\2\\M\\2\\0\\0\\9\\F\\9\\@\\I\\N\\^\\A\\C\\F\\C\\9\\A\\D\\D\\#\\#\\8\\9\\0_\\E\\0\\C\\C\\#\\D\\4\\E\\E\\C\\0\\>\\1\\8\\1\\T\\D\\0\\E\\C\\B\\E\\C\\0\\F\\0\\#\\B\\0\\+\\I\\F\\E\\2\\9\\1\\F\\B\\0\\
C\\7\\#\\B\\2\\u\\Z\\N\\e\\~\\s\\#\\]A\\1\\E\\4\\#\\E\\B\\#\\F\\6\\#\\C\\0\\#\\D\\2\\#\\D\\8\\&\\p\\T\\D\\1\\a\\-\\E\\8\\M\\E\\D\\#\\E\\B\\E\\0\\D\\F\\#\\A\\D\\9\\7\\#\\F\\e\\j\\#\\\$\\8\\2\\F\\7\\#\\B\\7\\#\\B\\0\\C\\F\\0\\AA\\
A\\5\\G\\0\\M\\@\\B\\3\\F\\B\\K\\B\\5\\E\\0\\&\\A\\0\\D\\9\\}\\\\8\\1\\f\\#\\X\\#\\B\\4\\B\\6\\E\\9\\#\\>\\6\\#\\C\\D\\E\\E\\#\\-\\&\\E\\7\\F\\7\\=\\E\\A\\#\\B\\4\\D\\E\\#\\D\\C\\E\\8\\#\\C\\C\\8\\5\\F\\9\\Y\\F\\F\\E\\F*\\
F\\9\\8\\3\\CD\\:\\A\\0\\8\\1\\v\\O\\F\\C\\#\\D\\2\\C\\5\\D\\F\\&\\9\\0\\#\\C\\E\\C\\6\\D\\7\\D\\#\\D\\4\\D\\4\\F\\1\\F\\1\\#\\D\\A\\#\\C\\0\\r\\E\\9\\E\\2\\#\\(\\8\\D\\#\\F\\0\\F\\8\\C\\0\\)\\9\\A\\D\\A\\+\\0\\0\\9\\6\\E\\D\\F\\B\\A\\1\\
E\\D\\C\\1\\K\\A\\5\\8\\B\\?\\F\\B\\#\\4\\B\\B\\0\\B\\4\\c\\ig\\#\\B\\0\\D\\0\\`\\B\\0\\8\\F\\L\\@\\{\\F\\7\\8\\9\\E\\C\\mk\\0\\m\\9\\B\\0\\8\\D\\m\\A\\B\\#\\C\\2\\F\\B\\C\\D\\#\\C\\D\\E\\E\\#\\#\\B\\0\\9\\C\\6\\G\\#\\B\\4\\
F\\6\\[\\`\\F\\C\\a\\#\\E\\3\\#\\C\\8\\E\\3\\A\\7\\h\\E\\3\\N\\y\\7\\D\\A\\F\\E\\%\\A\\0\\F\\F\\#\\D\\E\\4\\8\\1\\#\\F\\9\\5\\#\\j\\A\\F\\E\\8\\D\\2\\0\\0\\`\\F\\C\\#\\E\\9\\E\\3\\E\\D\\>\\8\\1\\F\\A\\9\\A\\D\\D\\`\\9\\2\\8\\0\\`\\
%\\0\\y\\D\\7\\#\\8\\4\\E\\8\\4\\U\\B\\4\\D\\B\\#\\B\\8\\A\\3\\A\\9\\B\\F\\T\\!\\|\\C\\9_\\D\\B\\FF\\C\\G\\#\\B\\0\\@\\E\\1\\K\\C\\4\\c\\0\\0\\o\\0\\D\\2\\J_\\Q\\#\\9\\D\\F\\C\\#\\#\\@\\F\\0\\8\\A\\F\\4\\C\\2\\W\\
B\\C\\j\\B\\B\\K\\#\\T\\8\\4\\F\\04\\ \\E\\9\\E\\8\\;\\3\\8\\0\\?\\C\\FB\\#\\!\\A\\2\\D\\5\\E\\4\\D\\C\\#\\B\\0\\#\\#\\C\\2\\,\\1\\#\\B\\7\\#\\0\\<\\F\\0\\#\\O\\w\\F\\6\\#\\2\\8\\0\\y\\#\\E\\1\\8\\B\\E\\ R\\#\\F\\0\\1\\Z\\#\\

```

\84\|D7y\|F84##\00\98+\|FD\|84\|F04\|F3#\|F4\|9F\|F1#@\\934#4#\|A8\|FA#\|8F#\|A8EBx\|92\|F9\|C0g\|A9#\|00\|C0L\|E9(\|84"\|F9}\|W\|88
C\7\00##JK!<\C5z\|9C\|E9\|BF)@#,##BX\|C5L\|E2#\|F7(\|B0?\#Q!\*\\84\|h69\|8B\|#[\|B0x\|JBA\|E1\|E929\|EB\|9A#\|00\|FCB\|BA\|E1#\|89
F7\|85\|89#\|C0`\|B1\|B4#\|C2j#\|93\|C09\|F9\|89##\|FEs\|E9+\|84\|D5LK\|E4'n#\|C0K@\|B54#\|C2J\|AAIp3\|9FD\|96H\|FB#@\|91\|F1\|B6 ,\|9D#\|00
F0`\\83\|B4#\|C2*6\|00\|B3#\|FD\|A5d\|A0#\|x@z#\|a#\|?#\|89\|B9\|E1$?\|l\|96j\|BX\|F5\|F4\|9F\|95\|CC\|&k\|00Q\|E0.\|E9.\|84#\|DC#\|EC#\|00<\|89s#\`{\|
AC2\|B9H\|A6\|A0#\|B8\|FA#\|91\|Un4\|B9\|98q#\|00X\|88\|CE##`[\|BCH#\~d\|CA\|00\|00\|AEG+\#85\|C84Q\|E0\|86T\|DF\|C4#\|X#\~AA\|F2#\`\
A3<\|EB#\|00p#\|P\|A32#\`#\|E\|9C\|C3#\|D8#\`#\|DCar\|CE#\|00\|F8#\|CE#\|d\|B\|88\|F4\|B1\|C4\|E4#\|B6#\|@+\|F0\|9F\|F8\|BCC\|B0\|BE\|EA!\|h\`\
8D\|BE#\|C2"\|FC#\`)\|FB\|A5\|D3\|00\|00V#\`#\|F9\|B9\|96\|BF7\|F99f\`.\|AF\|F6\|FBW#\|x\|DF\|CD7\|A7\|E1\|&F8\|B6$\|CEz\|86 _ze\|9Be\|D4\|ED\`\
A9g\|E6\|ACg\|FC\|FC#\|W9B\|DC\|C2v#\|h#\|BE#\|B4\|F8\|B1\|60\|D9\|CE\|D5?\|BE\|8F ,\|YN\}C\|A32\|DBM\|B2\|86F\|FE\|B1\|d9W]w#\|9B\|B7\|F7
EB\|D7\|19\|E5z#\`92\|A6#\~8A\|B3d#\`[\|B6n\|E7\|EE#\|4\|F5\|Ad\|8C\|LNB\|9N\|8\|D7\}A\|0\|AE\|CAN\|88\|94x\|D7\|E4#\~3\|80(p\|B0\|Ge\|DR\|EC19#\`\
F5\|A2#\|A803U\|F1#\|95\|A3#\|Iq5\|L\|F7#\|00<\|V\|E2\|PDa#\|Pb\|E1<\|9Bo\|EF \~89\|F3x\|DB\|00*\~96n#\|D2#\`S\&\#94\|D6\|C8\|C1\|B6\|DEVA*\`E0\`\
CAL\|P\|A6\|A0#\|8\|D8m\|9B\|D2\|t\|E1\|80#\|CD#\`[\|E3m\|ED6\|B9R\|EF#\|00X#\`J\|82\|FB\|96\|A7\|9Bf\|B1#\|96A\|D8A\|BD\|AD#\|93#\|EB2\`\
A7\|Bf\|#B8X\&@no\|KC\|G6+##Fc\|C9x\|Zr\{[\|DBv\|F7\|9B#\|C1\|AF#\|00\|CE\`E6\|m\|R\|BD\|BE\|C7\|F9D#\|86(+\|82R\|F5\#B\`8F\|B6\|DD\|D6#\`E0\`\
EE\|CC\`B2\|F0\|D0#\&\|E3,\#B2\|A3\|DE#\|8AP\{n4\|96L\|80\|90\|9A#\`BE#\`A6\|B1d#\|B5\|87\|K,\|94k\`AD#\`#\|D3\|E7C#\`AE\|CAZ\|93\|BC\|g\`\
96\|93U\|D\|F09\|_x\|E4\|Nn\|C3\|FB\|E44\|D7@\|ACE\|89\|E3ab\|A1<\|Z#\`=\|89#\`A3\|B1d\|AC\|8D\|D5\|FE#\`E0#\`E0\|E3\|ACxb#\|00\|E0\|EB\|C0\`\
AB@\|A1\|BU#\|90z\|E0\|E0\|ED\|DD@\|B6\|EB\|BBo#\`E2\|e\|83Bt\|D1#\`BE\|0\|9B\|C9o\|83#\`80\|D3\|EBy9\|96#\`91Z\|89\|89\|F9\|E7\|B3\`#\|B6\|F4x\`\
CD#\`FE\{q\#\`C2u\|q94\|B7\|F9\|00\|E0\|D7da\|D88\|70\|9 _B\|B1m\|CC\|EB\|9C\|C9#\`F891\|FBqi?\|BF#\|00\|C0\|ED\|C0\|83\|8A#\`E13#\`\
B1\|8D\|A0kn\|C6\|D9#\`I?\`F0\|80\|89id\|00\|F1s\#p\|A7\|B6x\|9C\|BBL\`#\`H\|9C\{q\|F4D\|BCF\|CC\|C4\|EEOm\|BEI\|L\|9F#\`#4+\|A6\|84Gh\|C6\`\
E7\|9Fn\|FB\|8Dze\|E5\~80\|B3\|80:\`R\|B0\|9C=\~Vgy\|E1\|BD\|B4\|F4m#\`p\|E9\|ED\|8A1a\`.\`V\|91#\`B8\|CF\|C0\|F1X\|B4\|94X#\`C3J#\`9B\|EF 署\|B8\`\
F8\#\`p\|82\|97\|V\|F8\|9E#\~&\|7x\|ED5\|BA\|FBE-p\&\|8D#\`88\|EC#\`31x\|A6\|89id\|00\|99\|A3#\`B8#\`B8\|00u#\`8A\|CCS\`87\|B3\|9C\|F7#\~BC\|9C\`\
DD#\`FB_\|CD\|C3\|D9Xd\|ADbR\|88B5\|C0q\|COS\|FF`~\|D9\|00\|AF\|g\|A5#\`9B\`CD<\|b\|B5#\`BE\|8C\|9F\`C0\|AC\`.\`C69Q\|A5\`q\`A6#\`\
F8\`81\|891\|DF49\|FD\|B8#\`EEL\`#\`B0L1+\|b\|99\|89\|A9\|DF\|F9\|ED\|8B\|F9u#\`EC\|B58c\|B2\|F7\|A2\`C4\`y\`9AM#\`8FO\|FB\|98\|FC\|BC\~\#g5\|E1\`\
E0\`J\|H\|90\|F7q\|C6\|F6\|EF4\|B1\|84\|C0\|9B\|BC\`#\`8C\|C6Y\|92 \~B8#\`J\|B3q\|C7\`h\`A9\`IP\|8E\|C1\|89\|E2\`CA0#\`xM1..`E15#\`F7\|FB\|F9\`\
2\|9\|D#\`D8\`80\|F1\|C0#\`81\|CF#\`EF\|C2\|F1\&\|F#\`C##\`8F#\`81G\|82\|E2\|F4\|A2C\|9AM41\`B8\|E5A\`>s\#p\|83\|A9\|F2\|FDE\|B9\#`\
FE##eb`WPE\|D0Q\|B8\|CE\`C2S\`J\|F8\|9E\|D5m\`:\`E8b\|C8\|00\|BE\|FAD\|B8#\`.\`EB#\`J\|B2\|C1\|94 署\|F1\|C9\|00:\`A3#\`E7\`A\|C18S\`8Ae#\`FEH\`\
FC\`M199\|CE6e\`d\|00\#d\|D\|E2#\`80\|E8 \~\|DD\|F7M#\`CE4e\`d\|00\#\#\#\`86#\`A7#\`8B\`89\|F5\|2e5\`9DFy\|00\#\#\`C4\`4BP#\`96\`F=\`CD\|A6\`\
AC\|B4S\`94 -\`C3Y#\`DA#\`F8\|B0\`~92d\|8D\|F5\|C0\|AD\|A6..`B+\`#4\|E2#\`e\|AA\`#9A\`A7\`CET\`E0\{@\|9E\$1+\`M\|C0\|FF\`99v\|FD+z\|b\|FD\#\`B8\`\
D2<\|C5\`=\`81\|F3\|CD\|F5h\`D5\|F8MS\`8B\|A6q\`AB#\`E0#\`CE\`#\`E1\`I\`I\`92\|84\|93\|FE\`E0\|Y\|9C\`#\`5\`+\`#`F0\`.\`q\|8E\|8B\`#\`#`D2#\`\
FC#\`#`F8D\`92\|C8\|00\|FCF#\`CE\`F1Q\`DF2\|WU\|C0\|F5X#\`FC\`CD\`8Bp\`CE\`D6\#2\|80\|COP\`8E\|B3\|E5\|D4\`A6\|A90#\`C8\|F5\|E9w\`8D\`E2\`\
F4\`a\`AE\`7\|81m#\`80\|F87#\`C6#\`8E#\`F\`G\`E3\`W\`F5Z\`87b+\`B0\`X#\`AC\`00\`DE2m\`FA#\`B1=h\`C0>\#80\|D7\`CD\`D90\`D84#\`AA\`80#\`8c\`\
DF\`#L\`\"9B\`#\`#`E2t1\`D7ZU\`E7e\`00\`C2#\`F6\`98\`AA\`F3\`B2Nj\`FB\`A1\`g\`B2\`CC\`FC\`D9\`F6\`CA\`JMM\`E2 \`A7\`CD\`D4\`h\`83\`B36\`FNE\`\
FE\`BB\`AB\`C6\`F\`C9\`ADM\`C2\`EB\`89\`EEa\`FE \`00\`9E\`BB\`DCK\`E7o\`00\`00\`00\`00\`_J\`END\`AEB\`82
-----WebKitFormBoundary89aFVifbfEYaKAp--
```

Yani parametreler Content-Disposition başlığı blokları halinde alt alta şekilde gönderilmiştir. Aşağıda binary verinin özet haline taşındığı daha öz bir http talep paketi görüntüsü yer almaktadır.

```
POST /formEncTypeTurleri/formAlani2.php HTTP/1.1
Host: 172.16.4.225
Content-Length: 23435
```

```
...
Content-Type: multipart/form-data; boundary=-----WebKitFormBoundary89aFVifbfEYaKAp
...
```

```
-----WebKitFormBoundary89aFVifbfEYaKAp
Content-Disposition: form-data; name="param1"
```

```
fatih123
-----WebKitFormBoundary89aFVifbfEYaKAp
Content-Disposition: form-data; name="param2"
```

```
deneme123
-----WebKitFormBoundary89aFVifbfEYaKAp
Content-Disposition: form-data; name="param3"; filename="icon.png"
Content-Type: image/png
```

```
(( Resim Binary Verisi )))
```

Yukarıdaki parametre gönderim yapısına bakılacak olursa parametre isimleri Content-Disposition başlığında yer almaktadır ve parametre değerleri blokların içerisinde yer almaktadır.

Gördüğü gibi html <form alanı enctype özelliği enctype="multipart/form-data" şeklinde olduğu için gönderilen http talep paketi Content-Type'ı multipart/form-data olmuştur ve bu nedenle gönderilen http talep paketi içerisindeki parametreler Content-Disposition başlığı halinde sıralı alt alta bloklar halinde gönderilmiştir.

Sonuç olarak parametre ve değerler multipart/form-data Content-Type’ında önceki & (ampersand) ‘lı gönderime nazaran farklı bir syntax’la gönderilmiştirlerdir. Ancak farklı syntax’da gönderilseler de sonuçta gönderilen şey parametre ve değerdir. Yani aynı şey karşıya gitmektedir. Fark multipart/form-data’da parametre değerleri büyük veri taşıyabileceğinden bloklar halinde verileri taşıma syntax’ına sahiptir. Yani sadece syntax’lar farklıdır.

c) text/plain

Html <form> alanında girdiler gönderilirken gönderilen parametreleri debugging amaçlı kontrol etmek gerekebilir. Bu gibi durumlarda html <form> alanının enctype özelliğine text/plain konulur. Bu şekilde html <form> alanının gönderdiği parametreler her biri ayrı satırda yer alacak şekilde alt alta gönderilirler. Örneğin;

HTML / PHP:

/var/www/formEncTypeTurleri/formAlani3.php:

```
<form action="formAlani3.php" method="POST" enctype="text/plain">
    <input type="text" name="param1">
    <input type="text" name="param2">
    <input type="submit" value="Gonder"/>
</form>
```

Form alanı submit’lendiğinde şu http talep paketi karşıya gider:

Http Request:

```
POST /formEncTypeTurleri/formAlani3.php HTTP/1.1
Host: 172.16.4.225
Content-Length: 35
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://172.16.4.225
Content-Type: text/plain
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.82 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://172.16.4.225/formEncTypeTurleri/formAlani3.php
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9,tr;q=0.8
Connection: close

param1=fatih123
param2=deneme123
```

Gördüğü gibi html <form> alanı enctype özelliği enctype="text/plain" şeklinde olduğu için gönderilen http talep paketi Content-Type’ı text/plain olmuştur ve bu nedenle gönderilen http talep paketi içerisindeki parametreler

```
param1=value
param2=value
```

şeklinde alt alta ayrı satırlar halinde gönderilmiştirlerdir.

Örneğin html <form>’unda dosya girdisi de yer aldığı ve enctype’ı text/plain yapıldığında gönderilen parametreler yine her biri ayrı satırda yer alacak şekilde alt alta gönderilir.

HTML / PHP:

/var/www/formEncTypeTurleri/formAlani4.php:

```
<form action="formAlani4.php" method="POST" enctype="text/plain">
    <input type="text" name="param1">
    <input type="text" name="param2">
    <input type="file" name="param3">
    <input type="submit" value="Gonder"/>
</form>
```

Form alanı submit’lendiğinde şu http talep paketi karşıya gider:

Http Request:

```
POST /formEncTypeTurleri/formAlani4.php HTTP/1.1
Host: 172.16.4.225
Content-Length: 83
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://172.16.4.225
Content-Type: text/plain
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.82 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Referer: http://172.16.4.225/formEncTypeTurleri/formAlani4.php
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9,tr;q=0.8
Connection: close

param1=fatih123
param2=deneme123
param3=Screenshot from 2022-04-18 15-36-19.png
```

Göründüğü gibi html <form alanı enctype özelliği enctype="text/plain" şeklinde olduğu için gönderilen http talep paketi Content-Type’ı text/plain olmuştur ve bu nedenle gönderilen http talep paketi içerisindeki tüm parametreler

```
param1=value
param2=value
param3=value
```

şeklinde alt alta ayrı satırlar halinde gönderilmiştir.

Not:

Html <form alanında dosya girdisi gönderilirken debugging amaçlı encType’ı text/plain olduğunda dosya parametresinde gönderilen dosyanın içerisindeki veri yerine gönderilen dosyanın adı gönderilir.

Kaynaklar:

<https://www.m5bilisim.com/webokulu/etiketler/ozellik-form-enctype.php>
<https://yazilimcorbasi.blogspot.com/2015/11/http-post-ve-multipartform-data.html>
<https://stackoverflow.com/questions/38017123/is-form-enctype-application-json-available>
<https://developer.mozilla.org/en-US/docs/Web/HTML/Element/form#attr-enctype>
Paketleme İçin Gözden Geçirilecekler / WAP SAST Tool Nedir.docx
<https://github.com/sqlmapproject/sqlmap/issues/4069>
<https://www.liquidmatrix.org/blog/sql-injection-using-sqlmap-multipartform-data-encoding/>