

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 gözlemlmek 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`

Göründüğü 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\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/00/00%/00/00/80\83/00/00/F9/FF/00/00/80/E9/00/00/u/00/00/EA/\00/00:98/00/00#o/92_\\C5F/00/00#BIDATx/DA/EC/9DytU\5\B9/C6 \E7/E4/84#F"\\H/80/F900(#Z)\AD/AD8/B5#\\A0/A2#\DB/{97C\AFu/AC/B3uhqhK/\\AE\\D5ZZK/D1#\\A2/E2]V/A1/B5*T+X81@#E#e#88"98/90/81/93/E4/DC?\\F6#9/C3>\E7\{\EF/E7/B7/D6/#89g/9F/E7\{DFg/F3##qU/E1\\F2/81#\E6/EA#\\F4##6W\\CF6W>P#D/CC/CF#ED#h#\\A9/81/Z/F3/F3NNE0/F36/W8D\\F9s#/B0#\F8cNx/94/88\$\\F0##\\C0'\A0#\j/92/BD\\BF/B9#\u/F13/F6/99BY#\BFFF/A91/83/8DC0#\A0/DA\\k/8D/A9#\#80/H80"\^4p,0###,r\\BD/DFC/CDu\\BBo/D6#\\EF#\\A5/C0/BB\\C0##/B1=\u84/D4#\C8/E5/C08\^AC/B9/86/FA\9B/81/D5/C0/EB\\E6z/CD4\84/0#/#E3/81o/99kh/C0/F5/A8#\^\\FE#,\\EA#\^2/00/BF\\D1#8#8/98/80/\\D3\\BEJ#\B0#\F8/B3/B96K##80/97/AB/F6/E7#\#E7/c\\80/B0\$\\I/88#\u/F060/#98#\u/Id/00/B6/D3/C3\\$\\FS\\\$YWhg/K\\809/E6\\DA/Id/00/D6h/AA/F5S/81/B3/81<\u/I92/V9/AL\\AD\\A6i,(\\80/e/00Y/AB/E2O#\\AE#\^%GVX/F/C#\\89/85F/\\92/B2/D4/C4##\\CC#\u/\\~\\AE\\E4/CF*\u95/A6-1e2/B9/82/C8/00/2U/CD?#g\\A8j#p190+Y\\AC!\\n\\C9/SF/A7/992#\u/80/94#\\EB#\u/B0/008Y/92/XCF/C9/C0/A6/CC.\u/97Q/CB/00/92M\\FC\\A9/C0#\u/C0#\u/80!\u/92/C4s1e/F7/81)K#\u/81 .=,\u/\\D6/E0t.\u/F5/97#\u/9E\\A7/BF)CB5/A6#\u/F32/80#\u/F9#\u/CE\\c\\KT/9A/B2\\FD\\A7)k#\u/00/E0#\u/A1/B9/86K#\u/DF3/ACMy#\u/96#\u/97/EE/C0/C3/C0/FBz#\u/B6/C6/F7O#\u/DDe/00/C1\^\\843yg#p=\u/D0M/B9/X\\BA\\ 99\Xgb"\\$#\\F07/83p\\A68F>\u/86/B3e/96#\u/98Xxg9/F2 #\\80/FF/88/00/B7/E2/F2/9D/A8x#\u/9D0/CE4#\u/n#\u/Bbe#\u/C1/00F#\u/FBF9/\\EA/F98B\\ B4\DFC4\\CA2/9C\\AD/D9d00#\u/\\EA/\\DF#\\BC##\\A9/B8#\u/r#\\88/C0\\{m\\FD/781;\\D12"\u/B5/873&\\96/8E/90#\u/83)A\\A9/\\BE/89/\\8C1#\u/gG\\ E3\\CB\\e/00\\F6R<\u/\\FC/CD1/FC,\\84/DB\\F1/\\5#\u/\\C5/2/00/BB#\u/BC#\\L\\V/9C8/\\A43/D9/C4Z/\\95/C0#\u/\\99#\u/\\AC/C8#\\\\E0/5/B1#\u/\\C8/E2/BD?\u 00\\CCU/95_d\\A9/\\I/\\D7/C4#\u/\\E\\B3/\\94/00/CF#\u/\\A\\BF/\\88/\\EC#\\21/F8/\\BC/\\89I@#\\A/\\80/\\DE/C0/D9/F61#\u/\\98h\\B2/B#\\90/\\F3E#\u/\\A1e\\BB/C26/86/9B\\D8#\u/\\H#\u/DF/C1/Y\\C8S\\AEX#\u/96Rnb\\F4T#\u/\\80/\\BB\\\\82s\\V/9C:\\FB/\\84/\\ED#\u/\\9B>\u/81Ke/\\00/EEp\\-\\CE/C1#\u/\\A/\\D2+\\BCB#\u/gB\\ 80\\2\\j\\l\\98/\\8Ez\\/FA/\\85\\F7\\/99\\d\\Dv/\\A7\\B2/\\95\\FB/\\8C##\\A8*)\\C3q=\u/DF\\F\\F7U\\F4+\\FA/\\84/\\83\\F3j\\(\\8E/\\EC#\\A/\\AE\\B9/\\88\\C\\A\\ F8x0#\u/\\Abv\\E3\\/AD\\3K\\DDU\\#\\CD#\u/EE/C5Yb\\A5#\u/D8z/\\E0\\p/\\9B#\\A9/\\91/\\7D3\\L\\)\\9F/E5/\\82-OqX\\E1/E6/\\84-ws\\#\\E6~\\#\\CFI\\:87/\\A6#\u/ 9Dw\\EA\\#\\I\\d/00/F19/E6\\f\\D4/F8A\\AFW\\B9\\A1\\EA\\#\\CA\\#\\R;3s\\C9#\u/AF\\B9/\\9E\\W\\B6/\\9F\\S\\Q\\D5\\Dea\\D3\\E5/\\94#\u/\\B7M\\F7s\\p/\\97/E2\\$\\ 85\\#\\B5\\F0/\\93\\A1\\f\\In\\F0\\t\\8As\\u/\\EBR\\~\\BF\\E2/\\DC:N9\\F4o\\F4/\\CC\\DB\\o\\CFC/6#\u/\\D3\\N\\F2\\A90/\\CE\\FC\\F9w\\#\\C0\\W\\B9/x\\P1/\\92<\\E1P+\\#\\8D\\ BC\\99\\D3\\FB\\p\\FD\\BD/\\87/\\96V\\Sx\\e\\BC\\BC\\ED\\db\\EA\\93M\\85\\F1\\C0\\N\\9C\\5D\\#\\KD\\99\\8C\\D3\\c*\\R\\E0\\|\\879\\A9\\B4\\BD\\FF\\BD\\#qS\\ D5C#\u/\\u\\A6c\\C9\\D2u#\u/\"\\CE\\#\\z\\AC\\A4\\D2\\E6/\\85#\u/FA\\=\\95\\F6\\CF9\\BF\\DF\\<\\BEY\\FE\\8A\\#\\O\\8D\\90\\89\\F93\\83n\\00_\\#9E\\F7s\\ A4D\\~\\N\\#7U\\=\\9C\\B1\\m\\A9\\EA\\ar\\#\\jt\\#\\E6\\98##\\A4\\#\\F4\\#\\DE\\A8XH\\8D\\#\\Os\\H\\FE\\8E\\8C\\}\\DE\\!\\F9;\\8A\\F\\E2\\#\\9F\\:85&\\#\\82\\f\\00\\A5\\ C0\\8B@\\99b\\C0##\\E8\\F7\\t\\v\\>\\3DL\\E2\\A7N\\#\\F0\\8j\\8C\\93\\8D\\99\\8098#\\+\\j\\(\\AF\\#)\\AD\\A6\\C1\\96\\B8_\\#\\m\\CD\\e\\FE\\A6\\EF\\F1\\E2\\:\\AC\\ Afu\\NA\\AF,Y\\CFC/4\\DE\\#\\A7\\EF\\r\\C3\\Oy\\O\\C1\\#\\AAJ\\D7\\P\\BD\\(\\88\\u\\86\\#\\O\\g\\#\\~\\80;\\81\\D3\\U\\E6\\EEp\\DC\\C1\\o\\C7\\FD\\A62\\~\\B4\\EC\\ 97_\\99\\E6\\BB\\r\\D7\\p\\v\\EE\\#\\CE\\F3\\C\\E\\FA\\A8\\EB\\(\\89\\EB\\FD\\8E?)\\F8-\\#\\80\\{\\9CF\\#\\E6\\C1d\\B\\Ap\\96\\F2\\FC\\A3\\A3\\t\\U\\AF\\DB\\DB\\`\\C3\\ E4o\\^\\DDU\\FCh\\D9/\\8E\\C5\\F7\\#\\Z\\BAZ\\#\\E0.wd\\FA\\E1\\98i\\#\\h\\AA\\FE\\#\\EE\\s\\91\\BEE\\9B\\E2z\\DD\\FCM\\ok\\81\\C\\DDU\\<\\B7\\E9\\B\\Bq\\ Bd\\g\\E\\9C\\9F\\-\\E2\\&\\dr\\E4p\\BF\\@\\!\\?\\#[\\~\\&\\DE\\EA\\FA\\82\\AD\\#\\E3\\-\\CF\\#\\B6\\9C\\E6\\EAg\\8B\\ 84\\#\\9E\\C\\A3c\\992\\80\\a*\\DB\\48k\\A4\\>\\A\\E\\D7\\FD\\E\\B\\CB\\F8\\F\\BD_\\#\\DF\\#\\A8\\C8\\#\\A\\E\\3\\CC\\E4\\L\\DA\\C9\\D\\E0\\e\\E\\G\\FD\\AC\\8u\\TV\\>\\791\\F9\\FB\\ AD\\B1\\F8\\~\\9B\\#\\jq\\FD\\FB\\8C\\\\B8\\LA\\E20\\x\\gg\\#\\CFD\\6\\00\\8E\\00\\FEG\\e\\99\\#\\F90\\E\\E\\D7\\~\\AD\\F8\\#\\f\\3\\H\\F3\\A9\\C4\\E94\\80\\`\\6\\DA\\C8\\D3\\N\\E\\B\\#\\FF\\C\\1\\89\\BD\\#\\0;\\ (29\\94\\EBE\\#\\B8\\#\\F\\eh\\#\\E7U\\<\\C3\\C08j\\#\\K\\>\\E4\\#\\g\\#\\98\\=\\#\\C\\#\\7\\C8\\1\\97\\#\\#\\5\\B2\\B3\\87\\n\\E1\\BD\\VCC\\#\\}83j\\>\\8@\\F2\\Af\\C\\C6\\E8\\k\\E8\\#\\DE\\+\\ C1\\C\\E\\26\\93\\S\\A\\E\\93\\8\\E\\N\\C\\0\\<\\9C\\A5\\8\\E\\D\\A\\C6\\D\\B2\\#\\C9\\D\\FC\\1\\c\\E5\\E9\\O\\C\\E\\5\\u\\#\\D9\\P\\7\\00\\80\\C5\\#\\8\\AD\\F7\\#\\Y\\x\\&\\EE\\A9\\C0\\\"\\ A3\\神\\#\\4\\D\\9n\\00\\B7\\#\\Cu\\f\\92\\#\\8\\Er\\Q\\FF\\9\\D4\\ \\8E\\C4\\F0\\#\\Cq\\A6\\BB\\B\\AS\\B6\\DB\\8\\o\\A\\X\\B\\8\\F\\3\\A9\\#\\>\\E1\\F\\v\\D\\E7\\F\\C\\964\\F6\\X\\F\\A4\\ AE\\#\\DD\\~\\ED\\E\\B\\46\\AC\\\$\\DC\\C\\(`\\B0\\CB\\=\\7\\E\\1\\EA\\FB\\C\\5B\\#\\z\\E\\#\\86\\D\\3\\X\\2\\96\\H\\DC\\~\\A\\E\\C\\B\\#\\C6\\#\\AD\\B\\6\\C\\0\\95\\C\\0\\#\\ AF\\#\\8\\AE)\\DC\\9\\8\\F\\FC\\BA\\C5\\#\\k\\u\\&\\FA\\84\\P\\AC\\99\\9C\\E8\\A7\\E4\\D\\#\\%\\B\\FF\\6\\#\\8\\B\\C7\\S\\DF\\#\\B1\\90\\g\\9F\\Sc\\l\\A\\E\\FD\\&\\@\\w\\9C\\FD\\ FC\\#\\\$%;\\~\\M\\#\\ED\\AB\\~\\#\\k\\%\\B\\FF\\6\\U\\j\\V\\FC\\9\\AP\\CC\\#\\9D\\F\\7\\9\\A\\9\\C\\B\\3\\C\\6\\00\\EE\\C\\2\\u\\FB\\#\\EE\\8\\A..\\j\\%\\@\\C\\8\\m\\A\\6\\p\\E\\7\\<\\ 852\\9C\\A\\#\\A\\`\\0\\p\\95\\B\\7\\DB\\FC\\8\\B\\9\\#\\#\\B\\F\\v\\19\\i\\^\\FE\\9\\B\\DC\\#\\<\\8\\27\\FE\\F\\2\\k_\\g\\#\\FE\\E\\1\\Z\\M\\D\\9\\{\\B\\7\\#\\<\\9\\C\\#\\F\\8\\#\\FE\\#\\AE\\#\\ A\\E\\#\\B\\6\\#\\E\\0\\F\\9\\B\\2?\\CD\\E\\4\\V\\x\\FE\\9\\8\\p\\B\\3\\6\\B\\5\\#\\9\\FE\\(\\FB\\8\\T\\C\\9\\E\\3\\T\\8\\6\\#\\E\\8\\3\\M\\2\\>\\O\\A\\#\\ CC\\F\\1\\f\\rqv\\#\\B\\8\\G\\#\\94\\#\\WH\\#\\E\\16\\#\\81\\8\\4\\C\\7\\6\\9\\A\\D\\L\\#\\H\\w\\#\\AC\\`\\8\\0\\C\\9\\R\\F\\#\\D\\D\\0_\\!\\E\\3\\D\\6\\j\\F\\4\\C\\9\\#.\\FA\\x\\E\\F\\L\\9\\Dr\\#\\A\\3\\#\\A\\1\\B\\0\\B\\0\\ B\\1\\~\\EF\\85\\EA\\x\\F\\9\\85\\D\\F\\4\\F\\A\\F\\A\\#\\F\\96\\A\\D\\A\\8\\F\\E\\6\\AC\\g\\l\\{\\D\\0\\k\\#\\7\\E\\2\\,[\\#\\DC\\#\\F\\4\\E\\4\\9\\F\\1\\8\\B\\D\\#\\{\\`_\\ 88Naa\\c\\O_\\DCN\\9\\F\\82\\`\\□.\\C7\\F\\5\\x\\EEF\\A\\2\\#\\p\\#\\z\\A\\6\\N\\9\\87\\9\\2\\b\\h\\#\\%\\N\\y\\z\\A\\1\\9\\a\\88\\C\\9\\V\\#\\C\\0\\CD\\A\\W\\D\\4\\H\\9\\D\\85\\g\\+\\G\\A\\B\\I\\ C\\1\\F\\D\\8\\#\\1\\8\\0\\9\\1\\C\\0\\#\\U\\9\\U\\ED\\B\\7\\B\\6\\F\\2\\%\\#\\8\\C\\7\\B\\9\\EA\\B\\A\\#\\FC\\X\\D\\A\\=\\0\\W\\A\\#\\8_\\B\\A\\E\\1\\C\\7\\9\\EB\\9\\A\\#\\86\\p\\FA\\#\\@\\D\\L\\C\\E\\6\\ F\\5\\@\\#\\W\\H\\S\\97\\#\\F\\1\\84\\#\\99\\E\\#\\#\\K\\B\\5\\#\\0\\8\\1\\9\\E\\W\\84\\p\\85\\Á\\9\\3\\D\\Ch\\#\\L\\95\\9\\6\\B\\x\\B\\6\\#\\90\\9\\2\\#\\F\\4\\Z\\8\\E\\B\\x\\9\\2\\B\\3\\M\\#\\m\\0\\9\\3\\p\\8\\E\\ FA\\#\\B\\8\\F\\<\\93\\C\\3\\#\\C\\0\\E\\D\\2\\P\\#\\O\\9\\3\\B\\4\\#\\F\\4\\#\\N\\9\\B\\x\\9\\A\\q\\#\\N\\C\\0\\8\\1\\E\\0\\#\\<\\Y\\\$\\8\\4\\B\\0\\8\\E\\B\\0\\C\\9\\E\\5\\8\\4\\E\\0\\i\\8\\4\\B\\F\\9\\B\\#\\D\\#\\C\\0\\A\\C\\0\\ B\\1\\D\\2\\M_\\0\\C\\6\\E\\4\\t\\D\\C\\#\\p\\8\\6\\A\\A\\#\\FF\\B\\F\\8\\A\\#\\p\\F\\#\\p\\8\\A\\4\\#\\C\\2\\W\\;\\#\\C\\8\\#\\N\\9\\6\\B\\F\\8\\A\\o\\D\\2\\C\\1\\9\\C\\9\\E\\p\\#\\ED\\8\\5\\p\\E\\9\\%\\84\\A\\F\\(\\A\\6\\8\\3\\a\\ FD\\8\\E\\`\\A\\2\\B\\4\\#\\L\\8\\C\\7\\0\\0\\B\\E\\-\\9\\D\\8\\F\\0\\%\\A\\7\\t\\e\\0\\B\\D\\8\\0\\E\\1\\D\\2\\I_\\2\\C\\v\\B\\3\\#\\D\\#\\C\\0\\8\\9\\D\\2\\H_\\3\\E\\E\\@\\#\\0\\N\\F\\A\\#\\E\\1\\k\\n\\<\\9\\0\\C\\ FA\\#\\E\\1\\k\\N\\E\\8\\C\\C\\0\\8\\A\\q\\C\\E\\#\\B\\F\\8\\9\\7\\A\\B\\4\\#\\E\\6\\k\\0\\G\\#\\9\\D\\2\\G_\\9\\3\\#\\#\\h\\F\\1\\8\\F\\#\\C\\1\\T\\g\\5\\0\\0\\`\\8\\FF\\9\\B\\#\\#\\#\\)\\84\\#\\#\\#\\D\\#\\@\\#\\P\\ BA\\###\\#\\9\\A\\9\\C\\D\\F\\o\\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\\#\\`\\Pi\\k\\0\\9\\5\\D\\2\\C\\8\\8\\@\\Q\\D\\9\\D\\6\\0\\0\\D\\4\\#\\D\\B\\#\\A\\8\\#\\ 80\\#\\AA\\#\\D\\0\\#\\8\\H\\z\\#\\7\\8\\9\\#\\c\\D\\A\\E\\6\\B\\F\\F\\2\\#\\%\\8\\9\\D\\#\\#\\8\\F\\0\\#\\D\\2\\B\\B\\8\\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\\#\\#\\ 84\\#\\2\\4\\r\\CD\\G\\sy\\B\\B\\v\\C\\3\\F\\E\\`\\9\\B\\F\\1\\E\\9\\`\\99\\8\\0\\9\\D\\F\\4\\8\\D\\p\\80\\8\\3\\#\\8\\5\\H\\8\\4\\D\\m\\1\\A\\F\\9\\E\\1\\8\\7\\0\\F\\0\\A\\C\\3\\F\\6\\A\\F\\FC\\9\\F\\L\\C\\0\\J\\C\\A\\e\\0\\C\\2\\#\\ D\\6\\5\\E\\C\\E\\0\\#\\E\\B\\9\\F\\#\\D\\B\\#\\E\\B\\E\\F\\&\\`\\A\\7\\#\\#\\D*\\B\\C\\S\\B\\7\\9\\1\\A\\B\\D\\7\\C\\F\\E\\5\\-\\6_\\#\\B\\0\\8\\A\\B\\2\\#\\P\\#\\D\\B\\2\\F\\C\\b\\#\\B\\7\\I\\8\\E\\B\\D\\1\\E\\6\\ B\\8\\ G\\&\\`\\9\\7\\#\\#\\F\\E\\B\\4\\E\\3\\M\\A\\6\\F\\E\\+\\A\\D\\C\\4\\F\\E\\#\\F\\9\\8\\#\\F\\C\\87\\@\\\$\\L\\8\\C\\#\\#\\`\\8\\9\\`\\E\\E\\X\\9\\2\\F\\4\\`\\84\\#\\Q\\#\\E\\E\\&\\1\\B\\3\\K\\F\\7\\#\\P\\#\\D\\ B\\C\\t\\4\\9\\(\\A\\10\\F\\7\\U\\9\\C\\5\\w\\`\\8\\E\\9\\0\\A\\0\\8\\2\\f\\8\\A\\8\\E\\9\\8\\C\\?\\Q\\F\\2\\i\\F\\Cr\\#\\C\\0\\\$\\#\\9\\2\\A\\0\\4\\#\\E\\4\\K\\#\\D\\1\\#\\`\\F\\2\\8\\3\\g\\B\\3\\A\\E\\G\\D\\1\\C\\0\\o*\\3\\ A\\2\\H\\s\\C\\F\\,\\!\\B\\#\\g\\8\\6\\#\\i\\C\\6\\F\\8\\B\\A\\B\\2\\C\\3\\#\\B\\F\\8\\4\\C\\A\\#\\Y\\d\\#\\8\\8\\H\\#\\D\\1\\K\\7\\r\\C\\D\\G\\F\\1\\8\\D\\F\\1\\W\\e\\#\\3\\#\\B\\F\\8\\4\\F\\2\\n\\A\\5\\#\\D\\4\\`\\#\\A\\0\\H\\:\\ 88\\E\\H\\8\\F\\C\\B\\G\\#\\#\\D\\3\\=\\R\\(\\A\\E\\D\\A\\3\\H\\O\\D\\1\\A\\9\\8\\C\\F\\1\\E\\F\\D\\C\\A\\#\\F\\9\\D\\5\\D\\7\\#\\Q\\A\\0\\E\\1\\#\\A\\0\\0\\92\\@\\B\\4\\E\\D\\F\\Y\\E\\D\\L\\ E\\9\\#\\C\\E\\E\\C\\q\\#\\F\\7\\F\\7\\#\\B\\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\\#\\I\\T\\#\\@\\=\\A\\0\\Z\\C\\0\\q\\8\\C\\?\\D\\8\\#\\F\\B\\9\\C\\2\\E\\5\\B\\D\\C\\6\\H\\P\\ B\\0\\#\\D\\A\\5\\C\\B\\0\\q\\8\\C_\\B\\3\\F\\B\\<\\I\\s\\h\\9\\2\\v\\B\\2\\o\\B\\D\\t\\9\\8\\q\\8\\C_\\B\\3\\F\\B\\<\\K\\c\\h\\9\\4\\v\\&\\F\\F\\B\\E\\#\\s\\E\\9\\2\\#\\`\\C\\6\\F\\8\\5\\B\\B\\C\\F\\D\\3\\4\\E\\8\\0\\A\\5\\8\\3\\ D\\D\\j\\8\\E\\A\\5\\B\\3\\N\\8\\C\\F\\1\\k\\v\\9\\F\\E\\7\\D\\9\\#\\j\\A\\5\\8\\3\\B\\D\\#\\#\\p\\8\\C_\\B\\3\\F\\B\\A\\#\\D\\8\\#\\E\\C\\N\\~\\B\\7\\L\\C\\0\\AD\\1\\F\\E\\#\\8\\B\\#\\E\\3\\B\\1\\v\\)\\8\\D\\#\\A\\8\\M\\C\\D\\#\\ 80\\G\\9?\\U\\p\\k\\8\\C_\\B\\3\\F\\B\\C\\5\\#\\A\\0\\F\\x\\F\\9\\3\\#\\7\\C\\6\\F\\8\\A\\B\\3\\F\\B\\H\\M\\#\\D\\8\\#\\B\\C\\9\\3\\F\\C\\8\\9\\A\\8\\0\\c\\F\\C\\A\\0\\D\\9\\)\\~\\6\\8\\0\\m\\D\\2\\!\\`\\C\\4\\R\\ E\\8\\8\\8\\E\\B\\C\\A\\#\\D\\C\\#\\E\\3\\D\\7\\E\\C\\`\\B\\3\\M\\#\\9\\0\\e\\A\\E\\`\\t\\C\\2\\F\\E\\9\\A\\8\\9\\B\\&\\E\\0\\C\\6\\#\\ N\\C\\C\\F\\D\\F\\D\\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\\0\\0\\9\\F\\9\\#\\I\\N\\C\\a\\C\\F\\C\\9\\A\\D\\#\\#\\`\\8\\9\\0_\\E\\0\\C\\C\\#\\D\\4\\E\\E\\C\\0\\`\\8\\1\\T\\D\\0\\E\\C\\B\\E\\C\\0\\F\\0\\B\\#\\B\\0\\I\\F\\0\\A\\0\\A\\1\\ A\\5\\G\\0\\M\\@\\B\\3\\F\\B\\K\\5\\B\\E\\0\\#\\A\\0\\D\\9\\)\\8\\1\\f\\#\\X\\B\\4\\B\\6\\E\\9\\#\\#\\6\\#\\C\\D\\E\\#\\&\\E\\8\\C\\B\\8\\5\\F\\9\\Y\\F\\E\\F*\\ F\\9\\8\\C\\D\\A\\0\\8\\1\\v\\O\\F\\C\\#\\D\\2\\C\\5\\D\\#\\#\\9\\0\\F\\x\\F\\9\\3\\#\\7\\C\\6\\F\\8\\A\\B\\3\\F\\B\\H\\M\\#\\D\\8\\#\\B\\C\\9\\3\\F\\C\\8\\9\\A\\8\\0\\c\\F\\C\\A\\0\\D\\9\\)\\~\\6\\8\\0\\m\\D\\2\\!\\`\\C\\4\\R\\ E\\8\\8\\8\\E\\B\\C\\A\\#\\D\\C\\#\\E\\3\\D\\7\\E\\C\\`\\B\\3\\M\\#\\9\\0\\e\\A\\E\\`\\t\\C\\2\\F\\E\\9\\A\\8\\9\\B\\&\\E\\0\\C\\6\\#\\ N\\C\\C\\F\\D\\F\\D\\C\\E\\E\\2\\A\\C\\#\\#\\T\\P\\6\\8\\0\\M\\D\\2\\C\\1_\\&\\E\\0

\84\D7y\84##\00\98+|FD\84\FO4\#F4\9FF1#@|\934#|\A8\FA#\#8F#/|#8EBx\92\F9\C0g\A9#\00\COL\|E9\(\84\|F9\W\|88\|C7\00##|JK!<|C5z\9C\|E9\|BF#|@,#\#BX\|C5L\|E2#\|F7\|B0#?QI*\|84\h69\|8B#[\B0x\J\BA\|E1\|E929\|EB\|9A#\00\FCB\|BA\|E1#\|89\|F7\|85\|89\|C0\`B1\|B4#\|C2j#\|93\|C09\|9F\|89#\|FEs\|E9+\|84\|D5LK\|E4n#\|C0K@\|B54#\|C2JAAIp3\|9FD\|96H\|FBB#\|91\|F1\|B6_ ,9D#\|00\|F0`\|83\|B4#\|C2*600\|B3#\|FD\|A5d\|A0#x@#z#a#\#?89\|B9:\|E1\\$?\|96j#\|BX\|F5\|F4\|9F\|95\|CC/\&k\|00\|Q\|E0.\|E9.\|84#\|DC#\|EC#\|00<\|89s#\`{\|AC2\|B9\|H\|A6\|A0#\|B8\|FA#\|91\|Un4\|B9\|98q#\|00X\|88\|CE#\`{|BCH`#\~d\|CA\|00\|00\|AEG+\|85\|C84Q\|E0\|86T\|DF\|C4\|X#\<\|AA\|F2#\`{ A3\|<r\|EB#\|00p#\|PA32#\`{|#E9\|C3#\`{D8#\`{pi#\`{|DCar\|CE#\`{0\|F8#\|CE#\`{dB\|88\|F4\|B1\|C4\|E4#\`{B6#\`{+|F0\|9F\|8\|BCC\|B0\|BE\|BEA1\|h)\|8D\|BVE\?C2#\`{|FC\#)\|FB\|A5\|D3\|00\|00V#\`{|F9\|B9\|96\|BFB\|7\|F99\)\|AF\|F6\|FBW#\`{|DF\|CD\|7\|A7\|E1&\|F8\|B6\|FCEz\|86\|ze\|9Be\|D4\|ED\| A9g\|E6\|ACg\|FC\|FW\|9B\|DC\|C2v\|h#\|BE\|B4\|F8\|B1\|6\|D9\|CE\|D5\|B\|E\|F8\| ,YN\}CA\|32\|DBM\|B2\|86\|F\|E\|B1\|d9W\|w\|#9B\|B7\|F7\| EBD\|719\|E5z#\`{|92\|A6#\`{|8A\|B3d#\`{|[B6n\|E7\|EE\#4\|F5\|Ad\|8C\|LN\|B9\|N8\|D7\)|AF0\|AE\|CAN\|88\|94\|x\|D7\|E4#\`{|3\|80\|p\|B0G\|e\|DR\|EC19#\`{ F5\|A2#\`{|803U\|F1#\`{|95\|A3#\|Iq\|5.L\|F7#\`{|00<\|V\|E2\|PD\|A\#P\|E1\<\|9B0\|EF\`{|89\|F3x\|DB\|00`*`|96n\|D2#\`{|S\&\#94\|D6\|C8\|C1\|B6\|DE\|DA\`{|E0\| CAL\|P\|A6\|A0#\`{|8D\|8m\|9B\|D2\|t\|E1\|80#\|CD\#)\|E3m\|ED\|B9\|R\|E\|#00X\|J8\|FB\|96\|A7\|9Bf\|B1\|#96A\|D8A\`{|BD\|JAD\#93#\`{|EB\| A7\|Bfy\#B8\&@|no\|K\|C6#\`{|#Fc\|C9x\|Zr\{|DBf\|V\|79B\|C1\|AF#\`{|00\|CE\|:E6\|mR\|BD\|BE\|C7\|F9D\|#86\|+|82R\|F5\|#B\|`{|8F\|B6\|DD\|D6#\`{|E0\| EE\|CC\`{|B2\|F0\|D0#\`{|E3,\`{|B2\|A3\|DE\#8A\|p\|n4\|96L\|80\|90\|9A\|BE\%#\`{|A6\|B1\|d\|B5\|87\|K\|,94\|k\|AD\#,\`{|#D3\|E7\|C\|AE\|CAZ\|93\|BC\|g\| 96\|93U\|DD\|F09\|j\|E4\`{|Nn\|C3\|FB\|E4\|D7@|ACE\|89\|E3ab\|A1\<Z#\`{|89\|A3\|B1\|d\|AC\|8D\|D5\|F\|E#\`{|E0\|E3\|ACx\|b\|00\|E0\|EB\|C\|0\| AB@|A1\|BU#\`{|90\|E0\|\$E\|0\|ED\|DD@|B6\|EB\|BBo#\`{|E2\|a\|83\|B3\|D1#\`{|BE0\|9B\|C9o\|83#\`{|80\|D3\|EB\|y\|96\|#91Z\|89\|89\|F9\|E7\|B3\)|#B6\|F4\| CD#\`{|FE\|q!\|C2\|u\|q\|94\|B7\|9\|F0\|E0\|D7\|da\#D88s709\`{|_B\|B1\|m\|CC\|EB\|9C\|9\|B\|F8\|91\|FBqi\`{|BF\|#00\|C0\|ED\|C0\|83\|A\|E13\#4\| B1\|8D\|A0\|kn\|C6\|D9#\`{|#?F0\|80\|89\|d\|00\|F1\#p\|A7\|B\|Gx\|9C\|BBL\`{|#H9C\{q\|F4\|D\|BC\|FCC\|C4\|EEOm\|BEI\|L\|9F#\`{|#4\|+|A6\|84\|Gh\|C6#\`{ E7\|9Fn\|FB\|8Dze\|E5\`{|80\|B3\|80\|R\|B0\|9C=&\|Vgy\|E1\|BD\|B4\|F4m\#`{|E9\|ED\|8A1\`{|, &\|V\|91\|B8\|CF\`{|C0\|F1\|X\|B4\|94\|X\#`{|C3\|J\|9B\|E\|F\|霏\|B8\|F8\`{|#p\|82\|97\|V\|F8\|9E#\`{|&7\|x\|ED\|5\|BA\|FBE-p\&\|0\|D\|#88\|EC\#31x\|A6\|89\|d\|00\|99\|A3#\`{|B8\|B8\|00u\#`{|8A\|CCS\|87\|B3\|9C\|F7#\`{|BC\|9C\| DD#\`{|FB\|_CD\|C3\|D9\|Xd\|AdB\|Rd\|88\|B5\|C0q\|C0S\`{|FF\`{|D9\|00\|AF\|g\|A5\|#9B\`{|CD\<\|ibm\|B5\|#BE\|8C\|9F\|C0\|AC\|.`{|C69\|Q\|A5\|q\`{|A6\| F8\|81\|891\|DF49\|FD\|B8#\`{|EEL\`{|#B0\|L1\`{|b\|99\|89\|A9\|DF\|F9\|ED\|8B\|F9u\#`{|ECB\|58c\|B2\|F7\|A2\)|C4\`{|y\|9A\|#8F\|FB\|98\|FC\|BC\`{|#g\|5\|E1\|E0\`{|U\|H\|90\|F7\|q\|C6\|F6\|E\|F4\|B1\|84\|C0\|9B\|BC\|8C\|C6\|Y\|92\`{|B\|8\|#J\|B\|3q\|C7\|h\`{|A9\`{|P\|8E\|C1\|89\|E2\|CA0\#`{|x\|M1\`{:`{|E15\#\`{|F7\|FB\|F9\`{| A9\#D\`{|D8\`{|80\|F1\|C0\#`{|81\|CF#\`{|EF\|C2\`{|F1\&\|F\#\`{|8F\#\`{|81\|G\|82\|E2\|F4\|A2\|C\|9A\|M41\#`{|B8\|i\|E5\|A>s\#p\|83\|A9\|F2\|FDE\|B9\#\`{ FE\#\`{|eb\`{|WPE\|D0\|Q\|B8\|CE\`{|C2S\`{|J\|F8\|9E\|D5\`{|:`{|E8\|b\|C8\|00\|BE\|FAD\|B8\#\`{|.EB\|`{|B2\|C1\|94\`{|番\`{|F1\|C9\|00\`{|A3\`{|E7\`{|A\`{|C18\|S\`{|8Ae\`{|FEH\`{| FC\`{|M\|99\|CE6e\`{|d\|00\`{|d\`{|A\|E2\#\`{|80\`{|E8\`{|DD\`{|F7\|M#\`{|CE4e\`{|d\|00\#\#\#\`{|86\`{|A7\`{|#8B\|89\|F5\|2e5\|9DFdyd\|00\`{|#\`{|^C4\`{|4\|B\|#96\|F\`{|`{|CD\|A6\`{| AC\|B4\|S\|94\`{|-`{|C3Y\`{|DA\`{|#F8\|B0\`{|92\`{|8D\|F5\|C0\|AD\|A6\`{|B\`{|+`{|#4\|E2\#\`{|e\|A\|#9A\|A7\|CET\|E0\`{|@`{|9E\|S\`{|+`{|MC0\|FF\|99\|V\|FD\`{|+`{|z\|B\|FD\`{|#B\|8\| D2\`{|<\|C5\`{|=81\|F3\|CD\`{|F5\|h\`{|D5\`{|F8\|MS\`{|8B\|A6\|q\|AB\|E0\#\#\`{|CE\`{|&\|E1\|I\|I\|92\|84\|93\|FE\`{|E0\|Y\|9C\`{|#5\`{|+`{|#F0\`{|,`{|q\`{|8E\|B8\`{|#8\|#`{|\$D2\#\`{ FC\`{|x\`{|#`{|F8\|D\|92\|C8\|00\|FCF\#`{|CE\|F1\|Q\|DF2\|W\|C0\|F5\|X\#`{|FC\|CD\`{|8B\|p\|CE\`{|D6\#2\|80\|C0\|P\|8E\|B3\|E5\|D4\|A6\|A9\#`{|C8\|F5\|E9\|w\|8D\|E2\`{| F4\|4\|a\`{|AE7\|81m\#\`{|80\|F8\|7\|C6\#`{|8E\#`{|F\|G\|E3\`{|W\`{|F5\|87\`{|+`{|B0\#`{|X\|AC\|00\|DE2\|m\|F\|A\#`{|B1\`{|=h\`{|C0\`{|#`{|80\|D7\|CD\`{|D9\|0\|D8\#\`{|AA\`{|80\|8c\`{| DF\`{|L\`{|\"9B\|I\`{|#6\|E2\|t1\|D7\|ZU\|E7\|e\`{|00\|C2\#\`{|F6\|98\|AA\`{|F3\|B2\|Nj\`{|FB\|A1\`{|g\`{|B2\|CC\|FC\|D9\|F6\`{|CA\#`{|JMM\|E2\`{|A7\|CD\`{|{`{|D4\`{|83\|B36\`{|F\|FE\`{| FE\`{|BB\`{|AB\|C6\|F\|C9\|ADM\`{|C2\|EB\|89\|EE\|a\|FE\`{|00\|9E\|BB\|DCK\|E7\|o0\`{|00\`{|00\`{|`{|JEND\`{|AEB\`{|82\`{| -----WebKitFormBoundary89aFvifb\|EYKaKAp--

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

• • •

-----WebKitFormBoundaryys89aFVifbfEYKaP
Content-Disposition: form-data; name="param1"

fatih123

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

deneme123

-----WebKitFormBoundary89aFViFbfYEYaKAp
Content-Disposition: form-data; name="param3"; filename="icon.png"
Content-Type: image/png

((Resim Binary Verisi))
-----WebKitFormBoundarys89aFVifbfEYaKAp

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

Göründüğü 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 karşılık 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
```

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 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/>