

Hard-Copy of example

Below is the base64 encoded content of example.

001	LS0tL	S1CRU	dJTiB	SU0Eg	UFJJV	kFURS	BLRVk	tLS0t	LQpNS	ULFcF	FJQkF	BS0NB	UUVBc	1626193903	68
002	2VKME	podzl	jcjVl	N1FTa	k1TdW	pYUyt	FRkgw	UHJMW	jJtYU	swRlh	PYVhX	ZKJ0Z	URXCm	3158616388	68
003	QyOWF	xbUgv	Qm03S	k5pSH	NNaIn	SMnFs	dU5Pc	3Z5Tz	JBVjF	jdWF3	T2Zud	DNZMy	91b2x	4203632775	68
004	5RDA0	UTlBR	3BYNH	FCeTa	KL1No	Qk9BQ	jVP0E	9tMU8	1K2x5	L0F0T	XFdyZ	VCaUh	TTUh1	875566432	68
005	NFNjW	HVHZD	R3Ym5	QWwJ5	eTc5Q	ULGbE	hWUXN	0ck9X	YwpXT	TNCbE	x3RlR	BTm0x	aTJhT	1523718510	68
006	2gwTH	lyeWF	0WVFW	N0oxY	jdZSG	d3dGx	hdDFL	YkpkE	HJwdn	IyLzL	RY2Rs	QUdws	3lDCi	1904304501	68
007	9hVmd	SV1la	bXozR	Dh4dW	t2M0o	1cm40	MLVXu	HZGbf	N3a0h	JZFRN	MjFRS	U9ITU	M2L2Q	3632934574	68
008	wcjV0	ZWFLZ	z10Um	FXNmc	KNTZS	UCtsR	HNZZj	REvld	ZdjM1	Qi82U	1VFRj	FMcno	3N2ZG	405418741	68
009	cVROT	HdJRE	FRQUJ	Bb0lC	QURMU	G5KM0	dNMGN	6V2Fv	YQpTU	U1pay	tkcVN	6QVBD	UXNza	1579375931	68
010	zNRUE	phRjd	BL3px	UmtYT	mpuVl	BPWGF	4eDBi	dkhrc	DRKaC	t4Skh	oeExT	bXdoR	lhBCm	1450920483	68
011	dZaHh	QckVT	dCtXS	k9Rbk	J1TVp	5ZzRC	Rit1b	WRMUW	5ZS1Z	xbXhQ	cGFLR	WNKKy	8yV29	417988693	68
012	sSk5N	WG5pM	3FCai	9hS1U	KL3dC	eFFMb	Fp1T0	FBZU1	6Nlh5	QVQ0U	jFjWX	LQSE0	3c01l	3938135667	68
013	L0Z1U	XNGUn	Vldlh	CK2pT	cHA0W	GxDZm	NsTGF	ZZERZ	VwpXS	StUam	Z5Qys	veThn	RTVna	1277591091	68
014	W56eX	J0a1h	4MDle	S1FlU	UdtZk	lWbkF	hR25J	T3hwU	nh0SV	E1RWN	zQXlR	K3lXQ	3I2Cn	1308933047	68
015	RrRk1	hdjBj	QzJJa	URrNT	g3RHZ	j0Xg5	bUJZU	nNobG	JUDvD	rZTE1	Qkv4Z	3p6Qm	1oYld	3867199619	68
016	iS0x0	Rlhqc	HhhN3	VNcHY	KaXBB	cDN3R	UNnWU	VBW55	lalFJ	ZmJFb	jZhMm	dacGU	3Mmtv	4082793221	68
017	eHVl0	ExmS3	dURE5	aWTRk	VmZia	VdYan	czbGR	30EZw	NAP6e	G03MF	lvMDA	yQTMz	L0tCT	1882474398	68
018	EI5ZT	hNUXU	vWURY	VFJob	mg4YW	tMaG5	ZbU1T	ZFJ2e	Tdpal	FoZ3l	ZZFdi	ckUzN	0xVCj	267674559	68
019	RuRwT	zTms0	RkF4N	Tgxa1	JwL3l	1c2pJ	NTFMQ	LZ0bk	E1Nkt	JMnQr	VVhnS	zMvZ1	dTU1Z	2753264644	68
020	BeHVZ	KzBDZ	1lFQT	FGVXo	KbXJ4	Z3I0Z	WdrK1	NvaHV	MSXBR	N0Rin	G91dV	UrVlN	IVWNm	133249345	68
021	SctOU	3Eza1	ZrNTY	zcm1Q	ZUVQR	WRJST	Q0aWN	Fa0hN	LwpkW	nlkR3	labml	qYTM5	YmRlc	2197533645	68
022	UVhRG	1kdEk	vU2tN	SU9xR	ULMbn	RHTzF	FSndq	WHO0W	HpHUK	1tNW5	OQjNu	bFNWM	1E0Ck	1329397294	68
023	JCNjZ	UNjVT	VFViN	TNqNW	9N0GY	vaWtx	ZDl3U	XpRaE	1aNEd	DVVNn	c0NnW	UVBcV	RxVUR	355639322	68
024	mcGxh	ZzJPb	1JWSU	xNVHk	KNFdx	TklBT	FdzV1	NSM2w	ycVZr	UGNTS	jkrNk	9MMGt	pUEJp	3272901812	68
025	aUdUS	zMren	VVc0d	LK2N0	K0VQM	HhXVD	RjeJQ	wSlho	cApVU	0QwTW	hCZzh	nTEsy	OVhYS	739853111	68
026	WZHS3	RCTGl	QQWg5	Q3Nyd	zRwRk	cWmMx	EcjhZ	OGdFR	zdCZV	FE0FV	aaWph	cHFw0	StjCl	4109731340	68
027	FpMmx	vYXZh	eE1ZS	GhCRl	l5WXR	abSsw	Q2dZR	UF6K2	5pRHh	sNG4w	aHlMM	zhPbw	80RXB	3755486965	68
028	NTlJF	YTVBV	kVxZV	JnWU8	KNzhY	Q1o2Y	mYzZ2	9ZL0c	vQ1pL	UVBBW	HJtRW	1UY2J	rbTdr	1882531528	68
029	UUhiU	U5PWl	BWavp	SNnpY	cm5Ub	HRrbG	9MaVQ	4Y0Zy	VAPLR	3lHd3	dySjJ	tTXBW	MWExb	4139833108	68
030	FE4UT	MwVnE	4VnJo	Q3l1T	kVsTz	RZZit	6TFdK	Ymw0a	Utabk	huUXR	ZUDJl	b3Qrd	nhUcK	523184861	68
031	1VZkF	6TU1D	Z1lFQ	XFrWn	ExZn1	PclB0	dHJjU	2lvMv	k20Wh	t0Gpj	ZTYzd	DZ0dT	VNU0R	2472622298	68
032	iWdlQ	b1AwQ	WFzYV	RPeXi	KM0VH	dkZSV	XFIV1	puM3p	0aG85	ZUMvM	Wp0TW	pJSWF	5QWkr	3013962495	68
033	ZTV2b	1NpTV	ZjeHd	DTWpI	ZERU0	UgrSH	cySWR	40Wky	YQpzd	DF0M2	Z1UK9	XVmJX	eUZDZ	4260954340	68
034	GJnZD	I4M0Q	xbE51	TSt6R	lFtQU	FoZ3F	LcXRm	MnQyW	GFISU	p10XZ	NPQot	LS0tL	UVORC	742137239	68
035	BSU0E	gUFJJ	VkFUR	SBLRV	ktLS0	tLQo=								2267431676	33

If you need to type it manually, enter the first number (line number), and the 5-letter-words in each line in a file named `restore.txt`. Then follow the decoding instructions starting at **step 4**.

Decoding Instructions

To restore the content of example using the QR-code images below, follow these instructions:

1. Use a QR-Code decoder software to extract the text from each image.
 - (a) If the page is clean and flat (i.e. not stained or crimped), try to scan the entire page using a scanner (using at least 300 DPI black/white settings). Save the scanned document as JPG.
 - (b) Alternatively, take a picture of each QR-Code square (e.g. using a mobile phone's camera) and save it as a JPG file. When taking each picture, ensure the QR-Code square is in focus, and as flat and straight as possible.
 - (c) Use zbarimg (or other QR-Code software) to decode text from the images. Using multiple images is fine (order of images doesn't matter, since the decoded text will be sorted by line numbers):

```
$ zbarimg -q --raw *.jpg | \
  grep -v '^$' | \
  sort -k1n,1 > restore.txt
```

- (d) If the page is crimped or stained, a desktop QR-Code images might not be able to decode the QR-Code. As a fall-back, try to use one of the many free QR-Decoder apps available for mobile phones. These apps can sometimes extract text from a messy QR-Code (as they repeatedly try to refocus and decode the image shown in their view-finder). When these app extract the text, manually add the text to a file named restore.txt.
2. The restore.txt file should contain the same information as shown in the previous page (line numbers and groups of 5 letters, without the checksums).
 3. Verify the restored text (compare with the values shown below):

```
$ md5sum < restore.txt
040e4687a633917ad0cf84f7a4981328 -
```

```
$ sha256sum < restore.txt
d730ef203979d9133ebff658cc531e52cd0c8d1fad23fd3d8ff2b9b25dbfcd37 -
```

4. **if** the checksums above don't match, or if you've entered file's content manually, or if some of the QR-Code images failed to decode and some lines are missing, calculate checksum on each line, and manually correct the offending/missing lines:

```
$ cat restore.txt | \
  while read n ; do
    printf "%s\t" "$n" ;
    printf "%s" "$n" | tr -d ' ' | cksum ;
  done
```

The last two numbers in each line are the checksum and number-of-characters. They should match the values shown in the previous page.

5. Decode the file (remove the line numbers, whitespace, then decode with base64):

```
$ cut -c4- restore.txt | tr -d ' ' | base64 -d > example
```

6. Verify the original file's content:

```
$ md5sum < example
1177ab3944182adb6133036bc7ac45f5 -
```

```
$ sha256sum < example
cabe7a1f9773f37db501f6e5804c1bf9737f8d047194ba6a7e6ab6e95e2944e9 -
```



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3 of 6



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These are the QR-Code images of the encoded content of example. Follow the decoding instructions to restore the file's content.