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Click or tap here to enter text.

1. Photograph – Ed Sheeran

Loving can hurt, loving can hurt sometimes But it’s the only thing that I know When it gets hard, you know it can get hard sometimes It is the only thing that makes us feel alive We keep this love in a photograph We made these memories for ourselves Where our eyes are never closing Our hearts were never broken And time’s forever frozen, still So you can keep me Inside the pocket of your ripped jeans Holding me close until our eyes meet You won’t ever be alone, Wait for me to come home Loving can heal, loving can mend your soul And it’s the only thing that I know, know I swear it will get easier, Remember that with every piece of you And it’s the only thing we take with us when we die We keep this love in a photograph We made these memories for ourselves Where our eyes are never closing Our hearts were never broken And time’s forever frozen, still So you can keep me Inside the pocket of your ripped jeans Holding me close until our eyes meet You won’t ever be alone And if you hurt me That’s okay baby, only words bleed Inside these pages you just hold me And I won’t ever let you go Wait for me to come home Wait for me to come home Wait for me to come home Wait for me to come home Oh you can fit me, Inside the necklace you got when you were sixteen Next to your heartbeat where I should be Keep it deep within your soul And if you hurt me Well, that’s okay baby, only words bleed Inside these pages you just hold me And I won’t ever let you go When I’m away, I will remember how you kissed me Under the lamppost back on Sixth street Hearing you whisper through the phone, Wait for me to come home. 

2.

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| --- | --- | --- | --- | --- | --- |
| token | replace character string | Length | *n* | Savings: Length × n  – 1 - Length – n | |
| ! | and | 3 | 8 | 12 |  |
| @ | can | 3 | 8 | 12 |  |
| # | come | 4 | 6 | 13 |  |
| $ | memories | 8 | 2 | 5 |  |
| % | your | 4 | 5 | 10 |  |
| & | for | 3 | 8 | 12 |  |
| \* | home | 4 | 6 | 13 |  |
| ( | ourselves | 9 | 2 | 6 |  |
| ) | wait | 4 | 6 | 13 |  |
| \_ | inside | 6 | 5 | 18 |  |
| + | photograph | 10 | 2 | 7 |  |
| = | keep | 4 | 5 | 10 |  |
| 1 | you | 3 | 17 | 30 |  |
| 2 | loving | 6 | 4 | 13 |  |
| 3 | me | 2 | 16 | 13 |  |
| 4 | never | 5 | 4 | 10 |  |
| 5 | only | 4 | 6 | 13 |  |
| 6 | our | 3 | 6 | 8 |  |
| 7 | sometimes | 9 | 2 | 6 |  |
| 8 | the | 3 | 9 | 14 |  |
| 9 | these | 5 | 4 | 10 |  |
| 0 | won't | 5 | 4 | 10 |  |
| Total original Characters (with spaces) count from Word doc | | 1613 |  |  |  |
| Total dictionary and compressed text Characters (with spaces) | | 1226 |  |  |  |
| Difference in totals | | 387 |  | 258 | Total characters saved from above calcs |
| original and saved | | 76% |  | 16% |  |
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3.  
Dictionary:

!and

@can

#come

$memories

%your

&for

\*home

(ourselves

)wait

\_inside

+photograph

=keep

1you

2loving

3me

4never

5only

6our

7sometimes

8the

9these

0won't

Compressed text:

2 @ hurt, 2 @ hurt 7 But it’s 8 5 thing that I know When it gets hard, 1 know it @ get hard 7 It is 8 5 thing that makes us feel alive We = this love in a + We made 9 $ & ( Where 6 eyes are 4 closing 6 hearts were 4 broken ! time’s forever frozen, still So 1 @ = 3 \_ 8 pocket of % ripped jeans Holding 3 close until 6 eyes meet 1 0 ever be alone, ) & 3 to # \* 2 @ heal, 2 @ mend % soul ! it’s 8 5 thing that I know, know I swear it will get easier, Remember that with every piece of 1 ! it’s 8 5 thing we take with us when we die We = this love in a + We made 9 $ & ( Where 6 eyes are 4 closing 6 hearts were 4 broken ! time’s forever frozen, still So 1 @ = 3 \_ 8 pocket of % ripped jeans Holding 3 close until 6 eyes meet 1 0 ever be alone ! if 1 hurt 3 that’s okay baby, 5 words bleed \_ 9 pages 1 just hold 3 ! I 0 ever let 1 go ) & 3 to # \* ) & 3 to # \* ) & 3 to # \* ) & 3 to # \* Oh 1 @ fit 3, \_ 8 necklace 1 got when 1 were sixteen Next to % heartbeat where I should be = it deep within % soul ! if 1 hurt 3 Well, that’s okay baby, 5 words bleed \_ 9 pages 1 just hold 3 ! I 0 ever let 1 go When I’m away, I will remember how 1 kissed 3 Under 8 lamppost back on Sixth street Hearing 1 whisper through 8 phone, ) & 3 to # \*.

4. loving can hurt, loving can hurt sometimes But it’s the only thing that I know When it gets hard, you know it can get hard sometimes It is the only thing that makes us feel alive We keep this love in a photograph We made these memories for ourselves Where our eyes are never closing our hearts were never broken and time’s forever frozen, still So you can keep me inside the pocket of your ripped jeans Holding me close until our eyes meet you won’t ever be alone, wait for me to come home loving can heal, loving can mend your soul and it’s the only thing that I know, know I swear it will get easier, Remember that with every piece of you and it’s the only thing we take with us when we die We keep this love in a photograph We made these memories for ourselves Where our eyes are never closing our hearts were never broken and time’s forever frozen, still So you can keep me inside the pocket of your ripped jeans Holding me close until our eyes meet you won’t ever be alone and if you hurt me that’s okay baby, only words bleed inside these pages you just hold me and I won’t ever let you go wait for me to come home wait for me to come home wait for me to come home wait for me to come home Oh you can fit me, inside the necklace you got when you were sixteen Next to your heartbeat where I should be keep it deep within your soul and if you hurt me Well, that’s okay baby, only words bleed inside these pages you just hold me and I won’t ever let you go When I’m away, I will remember how you kissed me Under the lamppost back on Sixth street Hearing you whisper through the phone, wait for me to come home.

5. The data that was compressed has been returned to its original state in every detail. It is important that I use care when I decompress it in order to return it to its original state in a way that is clear of any errors. If I compressed word 'ever', words like forever, never, and every can overlap in the original sentence, which can cause errors when decompressing later, so be careful when compressing.

6. 텍스트, 스크린샷, 번호, 폰트이(가) 표시된 사진

자동 생성된 설명

7. parrot / Type: GIF File / Compressed size: 294KB / Size: 294KB / Ratio: 0%  
A 0% ratio means that it is uncompressed, so the compressed size is shown to be the same as the original size. GIF is generally use a lossless compression format. So I can preserve all the data about the original image without loss of image quality, which means that if the original GIF file is already optimized, it may not need to be compressed anymore.

8.CP4P\_Compression\_Activity\_calculator\_xls / Type: Microsoft Excel 97-2003 Worksheet / Compressed size: 15KB / Size: 57KB / Ratio: 76%  
Excel files often contain structured data, formulas, and text that can be effectively compressed; the nature of Excel data, which includes repetitive structures and text, increases compression. Because of this characteristic of Excel, it is often possible to compress effectively.

9. 텍스트, 스크린샷, 번호, 소프트웨어이(가) 표시된 사진

자동 생성된 설명

10. My backup routine is to use One Drive in Microsoft. Then, when I download a document or create a document, all documents are saved through my Microsoft account. In the case of Visual Studio, it is also connected to a Microsoft account, every time I write and save code, it’s backed up to the account. Therefore, I always make it essential to save all documents and work. If there's a problem with back-up, it's displayed systematically, so if the something isn't backed up, the Windows folder file shows that the backup failed, I can check if it's currently backed up.

11. I think my backup routine fits the backup checklist. I have linked my One Drive account to many programs such as Word, Excel, Visual Studio, Power Point, etc., which are connected to Microsoft as well as One drive connected to Windows. Also, there are activated files, files on my local computer, and files backed up on my One Drive. Then, One Drive is a cloud storage, so it's an independent platform, and it's a geographically separate location system, so my backup routine seems to be doing well for backup characteristics and checklists.

12. I need a device to verify the files that have been backed up, so I have to go to school or the library and connect to a computer. Before I do so, I check my cloud storage, which is called One Drive. When I want to access the files that were backed up recently, I click the "Recent" tab. For the reason of making sure the files have not been damaged and that they are activated in a proper way, it is necessary for me to go over each of the files that have been backed up individually.

13. In the case that I have saved almost of the my data in my cloud storage, I am not sure that it will take that much time. If I have an important assignment that is due tomorrow, I have the option of either checking the backup files of past assignments or asking assistance from friends who have tasks that are similar to me. Having remote backups allows me to quickly access files again, regardless of whether or not my computer suddenly goes down. As a result, I believe that I am really prepared for any emergency situations that might come up about backups.