

Test Documentation

Project 03

Test Fileset:

a.txt	bad3.txt	07.txt
b.txt	03.txt	08.txt
c.txt	04.txt	09.txt
badlong.txt	05.txt	
bad2.txt	06.txt	

Test # Adding files:

Test case 01: Adding files.

```
python project3.py add a.txt  
python project3.py add b.txt  
python project3.py add c.txt
```

Output: The archive entry and datablock allocated for the file are the first available.

```
1 012 a.txt01000000  
2 093 b.txt02030400  
3 127 c.txt05060708  
4 000 00000000  
5 000 00000000  
6 000 00000000  
7 000 00000000  
8 000 00000000  
9 000 00000000  
10 000 00000000  
11 000 00000000  
12 000 00000000  
13 000 00000000  
14 000 00000000  
15 000 00000000  
16 000 00000000  
17 000 00000000  
18 000 00000000  
19 000 00000000  
20 000 00000000  
21 000 00000000  
22 000 00000000  
23 000 00000000  
24 000 00000000  
25 000 00000000  
26 000 00000000  
27 000 00000000  
28 000 00000000  
29 000 00000000  
30 000 00000000  
31 000 00000000  
32 000 00000000
```

```
33 abcdef123456  
34 lacusdignissimrutrum.Suspendisse  
35 acaliquetmagna.Curabituretlobort  
36 isipsum.Sedelitelit,conguenec  
37 Loremipsumdolorsitamet,consectet  
38 uradipiscingelit.Nuncvelerosmaxi  
39 mus,vulputateliberoeu,ullamcorpe  
40 rligula.Pellentesquehabitantmor  
41 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
42 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
43 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
44 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
45 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
46 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
47 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
48 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
49 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
50 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
51 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
52 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
53 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
54 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
55 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
56 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
57 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
58 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
59 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
60 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
61 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
62 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
63 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz  
64 zzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzzz
```

Test case 02: Adding a file that already exists in the archive.

```
python project3.py add a.txt  
python project3.py add a.txt
```

Output: a.txt has been invoked to add twice, and it shows the following message.

File already exists in the archive!!!

Test case 03: Adding a file that exceeds max file name.

```
python project3.py add badlong.txt
```

Output: Since file name is 11 characters long, which exceeds max file name, it shows the following message.

Filename exceeds maximum file name!!!

Test case 04: Adding a file that exceeds max file size.

```
python project3.py add bad2.txt
```

Output: File size is 1584kB, which exceeds max file size. It shows the following message.

File size exceeds maximum size!!!

Test case 05: Adding a file that exceeds free space.

```
python project3.py add 03.txt
```

Output: Once the free space gets filled up after adding a bunch of files, adding a new file will show the following message.

Free space not available in the archive!!!

Test case 06: Adding a file that exceeds minimum set of datablock.

```
python project3.py add bad3.txt
```

Output: The file requires more more than specified datablock. It shows the following message.

File exceeds minimum set of datablock!

Test case 07: Adding a file that has more data than free block.

```
python project3.py add a.txt  
python project3.py add b.txt
```

```
python project3.py add c.txt
python project3.py add 03.txt
python project3.py add 04.txt
python project3.py add 05.txt
python project3.py add 06.txt
python project3.py add 07.txt
python project3.py add 08.txt
python project3.py add 09.txt
```

```
1 012 a.txt01000000
2 093 b.txt02030400
3 127 c.txt05060708
4 088 03.txt09101100
5 127 04.txt12131415
6 127 05.txt16171819
7 127 06.txt20212223
8 127 07.txt24252627
9 127 08.txt28293031
10 000 00000000
11 000 00000000
12 000 00000000
13 000 00000000
14 000 00000000
15 000 00000000
16 000 00000000
17 000 00000000
18 000 00000000
19 000 00000000
20 000 00000000
21 000 00000000
22 000 00000000
23 000 00000000
24 000 00000000
25 000 00000000
26 000 00000000
27 000 00000000
28 000 00000000
29 000 00000000
30 000 00000000
31 000 00000000
32 000 00000000
```

```
33 abcdef123456
34 lacusdignissimrutrum.Suspendisse
35 acaliquetmagna.Curabituretlobort
36 isipsum.Sedelitelit,conguenec
37 Loremipsumdolorsitamet,consectet
38 uradipiscingelit.Nuncvelerosmaxi
39 mus,vulputateliberoueu,ullamcorpe
40 rligula.Pellentesquehabitantmor
41 sdvvr131423524tgbrgnbwee1324tg3t
42 bgrfdd3r2efabcasdafwerewfsdvvr13
43 1423524tgbrgnbwee1324tg3
44 abcasdafwerewfsdvvr131423524tgbr
45 gnbwee1324tg3tbgrfdd3r2efabcasda
46 fwerewfsdvvr131423524tgbrgnbwee1
47 324tg3tbgrfdd3r2efsdssdddasdasds
48 abcasdafwerewfsdvvr131423524tgbr
49 gnbwee1324tg3tbgrfdd3r2efabcasda
50 fwerewfsdvvr131423524tgbrgnbwee1
51 324tg3tbgrfdd3r2efsdssdddasdasds
52 abcasdafwerewfsdvvr131423524tgbr
53 gnbwee1324tg3tbgrfdd3r2efabcasda
54 fwerewfsdvvr131423524tgbrgnbwee1
55 324tg3tbgrfdd3r2efsdssdddasdasds
56 abcasdafwerewfsdvvr131423524tgbr
57 gnbwee1324tg3tbgrfdd3r2efabcasda
58 fwerewfsdvvr131423524tgbrgnbwee1
59 324tg3tbgrfdd3r2efsdssdddasdasds
60 abcasdafwerewfsdvvr131423524tgbr
61 gnbwee1324tg3tbgrfdd3r2efabcasda
62 fwerewfsdvvr131423524tgbrgnbwee1
63 324tg3tbgrfdd3r2efsdssdddasdasds
64 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
```

Output: After adding the first 8 files, one archiveEntry is remaining for 09.txt. It shows the following message.

Datablock is full!!!

Test case 08: Adding a file that does not exist.

```
python project3.py add 10.txt
```

Output: Catches IOErrorException and shows the following message:

File exceeds minimum set of datablock!

[illegible]

After removing:

```
1 012 a.txt01000000
2 127 c.txt02030405
3 000 00000000
4 000 00000000
5 000 00000000
6 000 00000000
7 000 00000000
8 000 00000000
9 000 00000000
10 000 00000000
11 000 00000000
12 000 00000000
13 000 00000000
14 000 00000000
15 000 00000000
16 000 00000000
17 000 00000000
18 000 00000000
19 000 00000000
20 000 00000000
21 000 00000000
22 000 00000000
23 000 00000000
24 000 00000000
25 000 00000000
26 000 00000000
27 000 00000000
28 000 00000000
29 000 00000000
30 000 00000000
31 000 00000000
32 000 00000000
```

```
33 abcdef123456
34 Loremipsumdolorsitamet,consectet
35 uradipiscingelit.Nuncvelerosmaxi
36 mus,vulputateliberou,ullamcorpe
37 rligula.Pellentesquehabitantmor
38 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
39 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
40 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
41 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
42 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
43 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
44 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
45 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
46 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
47 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
48 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
49 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
50 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
51 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
52 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
53 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
54 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
55 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
56 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
57 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
58 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
59 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
60 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
61 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
62 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
63 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
64 ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ
```

Test case 02: Remove a file that does not exist in the archive.

```
python project3.py add a.txt
python project3.py remove b.txt
```

Output: The archive has only a.txt, trying to removing b.txt, which does not exist in the archive, shows the following message.

File doesn't exist!!!