

Input List used to generate the Graph:

```
["1", "y", "aaaa",  
"5", "n",  
"17", "y", "bbbb",  
"20", "n",  
"25", "y", "cccc",  
"30", "n",  
"35", "n",  
"3", "n",  
"5", "y", "dddd",  
"36", "y", "eeee",  
"31", "n",  
"48", "y", "ffff",  
"49", "y", "gggg",  
"5", "n",  
"48", "y", "hhhh",  
"50", "n",  
"54", "y", "krew",  
"57", "n",  
"58", "n",  
"51", "y", "truy",  
"52", "y", "ghuj",  
"9", "y", "crt",  
"5", "n",  
"39", "y", "asdj",  
"26", "n",  
"-1"]
```

We have execute the code for no of frames = 1, 2, 3, 4, 5, 6, 7, 10 and 15

The page faults for LRU Enhanced second chance and optimal algorithm for different number of frames have been displayed in the PageFault Table attached with.

Csv File before:

```
01,IIT2019186,SHAH  
02,IIT2019187,KUNA  
03,IIT2019188,DEBA  
04,IIT2019189,NIDH  
05,IIT2019190,RISH  
06,IIT2019191,PECH  
07,IIT2019192,PRIT  
08,IIT2019193,CHET  
09,IIT2019194,RAHU  
10,IIT2019195,DEEP  
11,IIT2019196,PRIY  
12,IIT2019197,JAID  
13,IIT2019198,NISC  
14,IIT2019199,ABHI  
15,IIT2019200,RAJJ  
16,IIT2019201,BONT  
17,IIT2019202,JYOT  
18,IIT2019203,KRIS  
19,IIT2019204,MITT  
20,IIT2019205,SANS
```

21,IIT2019206,CHAU
22,IIT2019207,BALL
23,IIT2019208,DHAN
24,IIT2019210,ADIT
25,IIT2019211,DIVY
26,IIT2019212,AMAN
27,IIT2019213,VIKR
28,IIT2019214,AKSH
29,IIT2019215,RAVU
30,IIT2019216,VANS
31,iit2019218,ANMO
32,IIT2019219,GITI
33,IIT2019220,DIVY
34,iit2019221,DIVY
35,IIT2019222,RAUN
36,IIT2019223,PRIN
37,IIT2019224,SHIV
38,IIT2019225,KISH
39,IIT2019226,MUKU
40,IIT2019227,ANSH
41,IIT2019228,ANIR
42,IIT2019229,NAVN
43,IIT2019230,ESHA
44,IIT2019231,GAUR
45,IIT2019232,WAGH
46,IIT2019233,PRIN
47,IIT2019234,KODI
48,IIT2019235,VISH
49,IIT2019236,NOON
50,IIT2019237,ISHN
51,IIT2019238,CHAN
52,IIT2019239,MRIT
53,IIT2019240,AYUS
54,IIT2019501,AYUS
55,IIB2019001,HARS
56,IIB2019002,PRAD
57,IIB2019003,VASU
58,IIB2019004,SALO
59,IIB2019005,SAND
60,IIB2019006,AMAN
61,IIB2019007,ADIT
62,IIB2019008,SHYA
63,IIB2019009,ABHI
64,IIB2019010,AVNE
65,IIB2019011,SHUB
66,IIB2019012,DANI
67,IIB2019013,ARVI
68,IIB2019014,DEGA
69,IIB2019015,AKSH
70,IIB2019016,ASHI
71,IIB2019017,AMBI
72,IIB2019018,B CH
73,IIB2019019,KALP
74,IIB2019020,DEVA
75,IIB2019021,HITI
76,IIB2019022,GAUR
77,IIB2019023,ADIT
78,IIB2019024,GAJJ
79,IIB2019025,RITU
80,IIB2019026,ATIT
81,IIB2019027,SHAH
82,IIB2019028,HARS
83,IIB2019029,MILA

84,IIB2019030,KAND
85,IIB2019031,DEBA
86,IIB2019032,SURY
87,IIB2019033,MD M
88,IIB2019034,KOKU
89,IIB2019035,HARS
90,IIB2019036,VIFU
91,IIB2019037,ANJA
92,IIB2019038,SHOU
93,IIB2019039,SUHA
94,BIM2015003,TAUH

Csv File after:

01,IIT2019186,aaaa
02,IIT2019187,KUNA
03,IIT2019188,DEBA
04,IIT2019189,NIDH
05,IIT2019190,dddd
06,IIT2019191,PECH
07,IIT2019192,PRIT
08,IIT2019193,CHET
09,IIT2019194,crts
10,IIT2019195,DEEP
11,IIT2019196,PRIY
12,IIT2019197,JAID
13,IIT2019198,NISC
14,IIT2019199,ABHI
15,IIT2019200,RAJJ
16,IIT2019201,BONT
17,IIT2019202,bbbb
18,IIT2019203,KRIS
19,IIT2019204,MITT
20,IIT2019205,SANS
21,IIT2019206,CHAU
22,IIT2019207,BALL
23,IIT2019208,DHAN
24,IIT2019210,ADIT
25,IIT2019211,cccc
26,IIT2019212,AMAN
27,IIT2019213,VIKR
28,IIT2019214,AKSH
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30,IIT2019216,VANS
31,iit2019218,ANMO
32,IIT2019219,GITI
33,IIT2019220,DIVY
34,iit2019221,DIVY
35,IIT2019222,RAUN
36,IIT2019223,eeee
37,IIT2019224,SHIV
38,IIT2019225,KISH
39,IIT2019226,asdj
40,IIT2019227,ANSH
41,IIT2019228,ANIR
42,IIT2019229,NAVN
43,IIT2019230,ESHA
44,IIT2019231,GAUR
45,IIT2019232,WAGH
46,IIT2019233,PRIN
47,IIT2019234,KODI
48,IIT2019235,hhhh

49,IIT2019236,gggg
50,IIT2019237,ISHN
51,IIT2019238,truy
52,IIT2019239,ghuj
53,IIT2019240,AYUS
54,IIT2019501,krew
55,IIB2019001,HARS
56,IIB2019002,PRAD
57,IIB2019003,VASU
58,IIB2019004,SALO
59,IIB2019005,SAND
60,IIB2019006,AMAN
61,IIB2019007,ADIT
62,IIB2019008,SHYA
63,IIB2019009,ABHI
64,IIB2019010,AVNE
65,IIB2019011,SHUB
66,IIB2019012,DANI
67,IIB2019013,ARVI
68,IIB2019014,DEGA
69,IIB2019015,AKSH
70,IIB2019016,ASHI
71,IIB2019017,AMBI
72,IIB2019018,B CH
73,IIB2019019,KALP
74,IIB2019020,DEVA
75,IIB2019021,HITI
76,IIB2019022,GAUR
77,IIB2019023,ADIT
78,IIB2019024,GAJJ
79,IIB2019025,RITU
80,IIB2019026,ATIT
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82,IIB2019028,HARS
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84,IIB2019030,KAND
85,IIB2019031,DEBA
86,IIB2019032,SURY
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90,IIB2019036,VIFU
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92,IIB2019038,SHOU
93,IIB2019039,SUHA
94,BIM2015003,TAUH