In [2]:
```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
%matplotlib inline
```

In [3]:
```
df = pd.read_csv("myFile.txt",header = None)
```

In [4]:
```
df.drop([0], axis=1,inplace = True)
```

In [5]:
```
df.head(10)
```

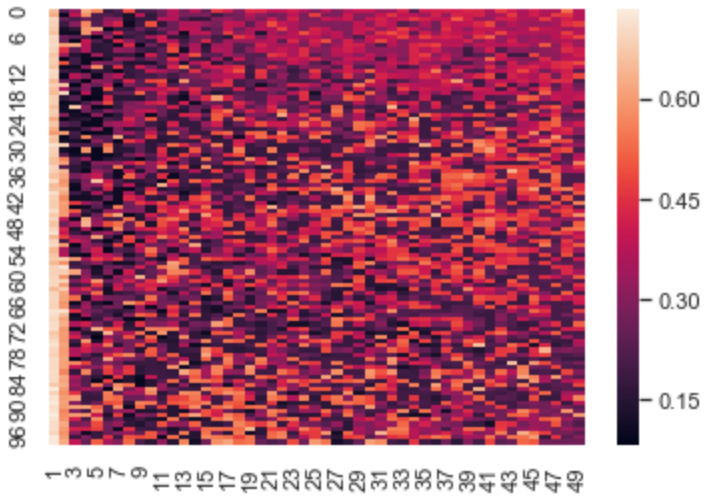
Out[5]:

	1	2	3	4	5	6	7	8	9	10	...	40	41	42	43	
0	0.65154	0.225050	0.322140	0.62432	0.558980	0.176040	0.21325	0.48730	0.19964	0.21688	...	0.42650	0.35935	0.46189	0.41379	0
1	0.62432	0.095281	0.383850	0.58348	0.211430	0.224140	0.18875	0.12976	0.38294	0.16697	...	0.42468	0.33757	0.36207	0.46098	0
2	0.69510	0.251360	0.203270	0.25953	0.211430	0.310340	0.30672	0.12976	0.17967	0.17423	...	0.33212	0.33122	0.41561	0.41833	0
3	0.68512	0.184210	0.304900	0.57169	0.226860	0.354810	0.43103	0.10799	0.19056	0.49274	...	0.43285	0.48276	0.32305	0.38022	0
4	0.67604	0.127040	0.166060	0.59437	0.613430	0.096189	0.17423	0.17060	0.26044	0.19238	...	0.39927	0.39837	0.36388	0.32668	0
5	0.65880	0.112520	0.107990	0.59165	0.338480	0.236840	0.43466	0.21416	0.19328	0.14610	...	0.41742	0.36751	0.47731	0.38294	0
6	0.70054	0.261340	0.235030	0.19419	0.094374	0.328490	0.11525	0.17786	0.21143	0.34846	...	0.46370	0.51452	0.32759	0.37659	0
7	0.69510	0.245010	0.099819	0.39927	0.216880	0.142470	0.43194	0.31579	0.20599	0.17695	...	0.31488	0.38838	0.32214	0.42468	0
8	0.70145	0.600730	0.617060	0.37931	0.159710	0.174230	0.10163	0.43376	0.10254	0.26497	...	0.38838	0.37931	0.37750	0.39564	0
9	0.68966	0.447370	0.235930	0.36570	0.159710	0.169690	0.31851	0.30581	0.20599	0.17514	...	0.31307	0.41742	0.21960	0.31670	0

10 rows × 49 columns

heatmap of missrate

In [6]:
```
import seaborn as sns; sns.set()
ax = sns.heatmap(df)
```



In [7]:
```
df.describe()
```

Out[7]:

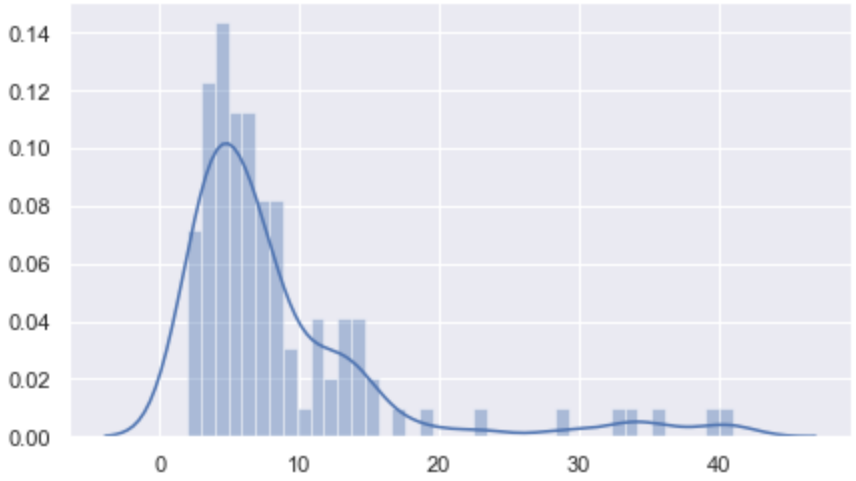
	1	2	3	4	5	6	7	8	9	10	...	
count	100.000000	100.000000	100.000000	100.000000	100.000000	100.000000	100.000000	100.000000	100.000000	100.000000	...	10
mean	0.685027	0.470064	0.262741	0.288784	0.277287	0.280935	0.285944	0.277967	0.275871	0.304229	...	0.3
std	0.025436	0.203976	0.150361	0.154659	0.152538	0.142155	0.145984	0.130362	0.125997	0.137216	...	0.1
min	0.596190	0.094374	0.091652	0.082577	0.084392	0.090744	0.094374	0.098004	0.096189	0.104360	...	0.1
25%	0.669693	0.258392	0.141108	0.171960	0.159710	0.168330	0.171277	0.167880	0.181718	0.182847	...	0.2
50%	0.689205	0.589835	0.204630	0.286300	0.250910	0.260890	0.258620	0.263615	0.245460	0.272235	...	0.3
75%	0.702360	0.610255	0.356625	0.355943	0.339387	0.374318	0.367058	0.370915	0.355720	0.417652	...	0.4
max	0.732300	0.716880	0.669690	0.639750	0.661520	0.641560	0.622500	0.588020	0.634300	0.598910	...	0.6

8 rows × 49 columns

In [9]:
```
a4_dims = (7, 4)
```

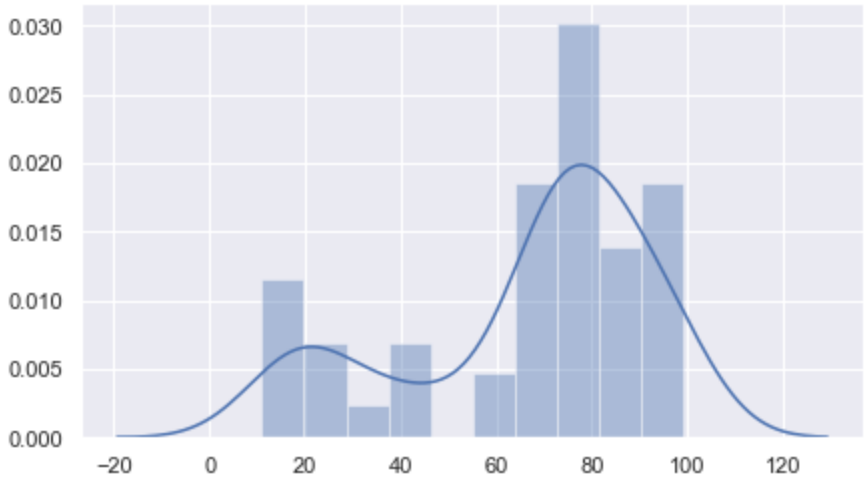
histogram of k that generate minimum missrate

In [10]:
```
fig, ax = plt.subplots(figsize=a4_dims)
fig=sns.distplot(df.idxmin(axis = 1),bins=40)
```



histogram of gamma that generate minimum missrate

In [11]:
```
fig, ax = plt.subplots(figsize=a4_dims)
fig=sns.distplot(df.idxmin(axis = 0),bins=10)
```



median of missrate w.r.t. gamma

In [12]:
```
ax = plt.subplots(figsize=a4_dims)
sns.lineplot(data = df.median(axis = 1))
```

Out[12]: <matplotlib.axes._subplots.AxesSubplot at 0x1a18ad4438>

median of missrate w.r.t. k

In [13]:
```
ax = plt.subplots(figsize=a4_dims)
sns.lineplot(data = df.median(axis = 0))
```

Out[13]: <matplotlib.axes._subplots.AxesSubplot at 0x1a18bbc898>