#### 2021219113 2021213595 沈尉林

### 问题描述 根据上面的分析,取\$b=[2.5,3.5]\$,间隔\$0.01\$取值,计算差分方程的收敛点。要求: 1. 程序源代码 2. 列表记录对应b的不同取值的收敛点 3. 作出收敛点关于b的取值图

## 问题求解

### 1、代码

```
b=[2.5:0.01:3.5];
x=zeros(1,length(b));
x0=0.2;
x(1,:)=b*x0*(1-x0);
for k=1:99
x(k+1,:)=b.*x(k,:).*(1-x(k,:));
end
k=(85:100)';
disp(num2str([NaN,b;k,x(k,:)],4));
x=0:0.01:1;
b(1)=2.5;
hold on;
x(1)=0.2000;
for j=1:100
    b(j+1)=b(j)+0.01;
    for i=1:100
        x(i+1)=b(j)*x(i)*(1-x(i));
        if(i>50)
            plot(b(j),x(i),'r.');
        end
    end
end
xlabel('b');
hold off;
```

#### 2、运行结果

NaN	2.5	2.51	2.52	2.53	2.54	2.55	2.56
2.5	7 2.	58 2.5	59 2	2.6 2.	.61 2	.62	2.63
2.64	2.65	2.66	2.67	2.68	2.69	2.7	
2.71	2.72	2.73	2.74	2.75	2.76	2.77	
2.78	2.79	2.8	2.81	2.82	2.83	2.84	
2.85	2.86	2.87	2.88	2.89	2.9	2.91	
2.92	2.93	2.94	2.95	2.96	2.97	2.98	
2.99	3	3.01	3.02	3.03	3.04	3.05	
3.06	3.07	3.08	3.09	3.1	3.11	3.12	
3.13	3.14	3.15	3.16	3.17	3.18	3.19	
3.2	3.21	3.22	3.23	3.24	3.25	3.26	
3.27	3.28	3.29	3.3	3.31	3.32	3.33	
3.34	3.35	3.36	3.37	3.38	3.39	3.4	
3.41	3.42	3.43	3.44	3.45	3.46	3.47	
3.48	3.49	3.5					
85	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0.6109	9 0.61	24 0.613	39 0.63	154 0.61	L69 0.6	183 0.	6198
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296	
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639	
0.6403	0.6416	0.6429	0.6441	0.6454	0.6466	0.6479	
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6563	
0.6575	0.6586	0.6595	0.6603	0.6605	0.6596	0.6567	
0.6507	0.6413	0.6297	0.618	0.6075	0.5983	0.5902	
0.5828	0.5759	0.5696	0.5636	0.558	0.5527	0.5476	
0.5427	0.538	0.5335	0.5291	0.5249	0.5208	0.5169	
0.513	0.5093	0.5057	0.5021	0.4986	0.4953	0.492	
0.4887	0.4856	0.4825	0.4794	0.4765	0.4735	0.4707	
0.4679	0.4651	0.4624	0.4597	0.4571	0.4545	0.452	
0.4495	0.447	0.4447	0.4431	0.4475	0.466	0.4785	
0.4872	0.4944	0.5009					
		0.6016					
		.24 0.613					
0.6212		0.6241					
0.631	0.6324			0.6364		0.639	
0.6403	0.6416			0.6454			
0.6491	0.6503			0.654			
0.6576	0.6588	0.6602	0.6617				
0.6796	0.6901	0.7019					
0.744	0.7498			0.7646			
0.7768	0.7805	0.784	0.7873	0.7905	0.7936	0.7966	

0.7995	0.8022	0.8049	0.8075	0.81	0.8124	0.8148	
0.8171	0.8193	0.8215	0.8236	0.8257	0.8277	0.8296	
0.8315	0.8334	0.8352	0.837	0.8388	0.8405	0.8422	
0.8438	0.8454	0.847	0.8489	0.853	0.861	0.8659	
0.8694	0.8724	0.875					
87	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0.610	9 0.6	124 0.6	139 0.6	154 0.6	169 0.6	183 0.6	198
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296	
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639	
0.6403	0.6416	0.6429	0.6441	0.6454	0.6466	0.6479	
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6563	
0.6575	0.6586	0.6596	0.6603	0.6606	0.6598	0.657	
0.6511	0.6416	0.6298	0.6181	0.6076	0.5983	0.5902	
0.5828	0.5759	0.5696	0.5636	0.558	0.5527	0.5476	
0.5427	0.538	0.5335	0.5291	0.5249	0.5208	0.5169	
0.513	0.5093	0.5057	0.5021	0.4986	0.4953	0.492	
0.4887	0.4856	0.4825	0.4794	0.4765	0.4735	0.4707	
0.4679	0.4651	0.4624	0.4597	0.4571	0.4545	0.452	
0.4495	0.447	0.4445	0.4413	0.4327	0.4141	0.4029	
0.3951	0.3885	0.3828					
88	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
						0.6078 183 0.6	
0.610	9 0.6	124 0.6	139 0.6	154 0.6	169 0.6		198
0.610	9 0.6	0.6241	139 0.6	154 0.6	169 0.6 0.6283	0.6296	198
0.610 0.6212	9 0.6 0.6226	0.6241 0.6337	0.6255 0.635	154 0.6 0.6269	0.6283 0.6377	0.6296 0.639	198
0.610 0.6212 0.631	9 0.6 0.6226 0.6324	0.6241 0.6337 0.6429	0.6255 0.6255 0.635 0.6441	0.6269 0.6364	0.6283 0.6283 0.6377 0.6466	0.6296 0.639 0.6479	198
0.610 0.6212 0.631 0.6403	9 0.6 0.6226 0.6324 0.6416	0.6241 0.6337 0.6429	0.6255 0.6255 0.635 0.6441	0.6269 0.6364 0.6454 0.654	0.6283 0.6283 0.6377 0.6466 0.6552	0.6296 0.639 0.6479 0.6564	198
0.610 0.6212 0.631 0.6403 0.6491	9 0.6 0.6226 0.6324 0.6416 0.6503	0.6241 0.6337 0.6429 0.6516	0.6255 0.6255 0.635 0.6441 0.6528	0.6269 0.6364 0.6454 0.654 0.6637	0.6283 0.6377 0.6466 0.6552 0.6667	0.6296 0.639 0.6479 0.6564 0.6715	198
0.610 0.6212 0.631 0.6403 0.6491 0.6576	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018	0.6255 0.6255 0.635 0.6441 0.6528 0.6617 0.7129	0.6269 0.6269 0.6364 0.6454 0.6637 0.7225	0.6283 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306	0.6296 0.6296 0.639 0.6479 0.6564 0.6715 0.7377	198
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018	0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76	0.6269 0.6269 0.6364 0.6454 0.6637 0.7225	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689	0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729	198
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899	0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784	0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873	0.6269 0.6364 0.6454 0.654 0.6637 0.7225 0.7646	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936	0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966	198
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744 0.7768	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899 0.7498 0.7805	0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784 0.8049	0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873 0.8075	0.6269 0.6364 0.6454 0.654 0.6637 0.7225 0.7646 0.7905	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936 0.8124	0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966 0.8148	198
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744 0.7768 0.7995	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899 0.7498 0.7805 0.8022	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784 0.8049 0.8215	0.6255 0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873 0.8075 0.8236	0.6269 0.6269 0.6364 0.6454 0.654 0.6637 0.7225 0.7646 0.7905 0.81	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936 0.8124 0.8277	0.6296 0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966 0.8148 0.8296	198
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744 0.7768 0.7995 0.8171	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899 0.7498 0.7805 0.8022 0.8193	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784 0.8049 0.8215 0.8352	0.6255 0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873 0.8075 0.8236 0.837	0.6269 0.6269 0.6364 0.6454 0.6637 0.7225 0.7646 0.7905 0.81	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405	0.6296 0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422	198
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744 0.7768 0.7995 0.8171 0.8315	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784 0.8049 0.8215 0.8352 0.8469	0.6255 0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873 0.8075 0.8236 0.837	0.6269 0.6269 0.6364 0.6454 0.654 0.6637 0.7225 0.7646 0.7905 0.81 0.8257 0.8388	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405	0.6296 0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422	198
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8317	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454 0.8291	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269	0.6255 0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873 0.8075 0.8236 0.837 0.8481	0.6269 0.6269 0.6364 0.6454 0.6637 0.7225 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8395	0.6296 0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348	198
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8317	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454 0.8291	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269	0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873 0.8075 0.8236 0.837 0.8481	0.6269 0.6269 0.6364 0.6454 0.654 0.6637 0.7225 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8395	0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348	0.6094
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8317	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454 0.8291	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269	0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873 0.8075 0.8236 0.837 0.8481 0.6032	0.6269 0.6269 0.6364 0.6454 0.654 0.6637 0.7225 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8395	0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348	0.6094
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8317  89 0.610 0.6212	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454 0.8291 0.6 9 0.6	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269 0.6016 0.6016	0.6255 0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873 0.8075 0.8236 0.837 0.8481 0.6032 139  0.6 0.6255	0.6269 0.6364 0.6454 0.654 0.6637 0.7225 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8395	0.6296 0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348	0.6094
0.610 0.6212 0.631 0.6403 0.6491 0.6576 0.6792 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8317  89 0.610 0.6212 0.631	9 0.6 0.6226 0.6324 0.6416 0.6503 0.6588 0.6899 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454 0.8291 0.6 0.6226 0.6324	0.6241 0.6241 0.6337 0.6429 0.6516 0.6601 0.7018 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269 0.6016 0.6016 0.6241 0.6337	139 0.6 0.6255 0.635 0.6441 0.6528 0.6617 0.7129 0.76 0.7873 0.8075 0.8236 0.837 0.8481  0.6032 139 0.6 0.6255 0.635	0.6269 0.6269 0.6364 0.6454 0.654 0.6637 0.7225 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	169 0.6 0.6283 0.6377 0.6466 0.6552 0.6667 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8395  0.6063 169 0.6 0.6283 0.6377	0.6296 0.639 0.6479 0.6564 0.6715 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348	0.6094

0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6563	
0.6575	0.6586	0.6596	0.6604	0.6607	0.66	0.6573	
0.6514	0.6418	0.6299	0.6181	0.6076	0.5983	0.5902	
0.5828	0.5759	0.5696	0.5636	0.558	0.5527	0.5476	
0.5427	0.538	0.5335	0.5291	0.5249	0.5208	0.5169	
0.513	0.5093	0.5057	0.5021	0.4986	0.4953	0.492	
0.4887	0.4856	0.4825	0.4794	0.4765	0.4735	0.4707	
0.4679	0.4651	0.4624	0.4597	0.4571	0.4545	0.452	
0.4495	0.447	0.4447	0.443	0.4474	0.4663	0.4785	
0.4872	0.4944	0.5009					
90	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0.6109	0.6	5124 <b>0.</b> 63	139 <b>0.</b> 63	154 0.63	169 0.6	183 0.6	198
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296	
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639	
0.6403	0.6416	0.6429	0.6441	0.6454	0.6466	0.6479	
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6564	
0.6576	0.6588	0.6601	0.6616	0.6635	0.6665	0.6712	
0.6789	0.6896	0.7017	0.7129	0.7224	0.7306	0.7377	
0.744	0.7498	0.7551	0.76	0.7646	0.7689	0.7729	
0.7768	0.7805	0.784	0.7873	0.7905	0.7936	0.7966	
0.7995	0.8022	0.8049	0.8075	0.81	0.8124	0.8148	
0.8171	0.8193	0.8215	0.8236	0.8257	0.8277	0.8296	
0.8315	0.8334	0.8352	0.837	0.8388	0.8405	0.8422	
0.8438	0.8454	0.847	0.8488	0.853	0.8611	0.8659	
0.8694	0.8724	0.875					
91	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0.6109	0.6	<b>6124 0.</b> 63	139 <b>0.</b> 63	154 0 <b>.</b> 63	169 0.6	183 0.6	198
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296	
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639	
0.6403	0.6416	0.6429	0.6441	0.6454	0.6466	0.6479	
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6563	
0.6575	0.6586	0.6596	0.6605	0.6608	0.6602	0.6576	
0.6518	0.6421	0.6301	0.6181	0.6076	0.5983	0.5902	
0.5828	0.5759	0.5696	0.5636	0.558	0.5527	0.5476	
0.5427	0.538	0.5335	0.5291	0.5249	0.5208	0.5169	
0.513	0.5093	0.5057	0.5021	0.4986	0.4953	0.492	
0.4887	0.4856	0.4825	0.4794	0.4765	0.4735	0.4707	
0.4679	0.4651	0.4624	0.4597	0.4571	0.4545	0.452	
0.4495	0.447	0.4445	0.4414	0.4327	0.4139	0.4029	
0.3951	0.3885	0.3828					

92	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0.610	9 0.61	24 0.63	139 0.61	.54 0.61	.69 0.61	.83 0.6	198
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296	
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639	
0.6403	0.6416	0.6429	0.6441	0.6454	0.6466	0.6479	
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6564	
0.6576	0.6588	0.6601	0.6615	0.6634	0.6663	0.671	
0.6786	0.6894	0.7016	0.7128	0.7224	0.7306	0.7377	
0.744	0.7498	0.7551	0.76	0.7646	0.7689	0.7729	
0.7768	0.7805	0.784	0.7873	0.7905	0.7936	0.7966	
0.7995	0.8022	0.8049	0.8075	0.81	0.8124	0.8148	
0.8171	0.8193	0.8215	0.8236	0.8257	0.8277	0.8296	
0.8315	0.8334	0.8352	0.837	0.8388	0.8405	0.8422	
0.8438	0.8454	0.8469	0.8482	0.8469	0.8394	0.8348	
0.8317	0.8291	0.8269					
93	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0.610	9 0.61	24 0.63	139 0.61	.54 0.61	.69 0.61	.83 0.6	198
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296	
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639	
0.6403	0.6416	0.6429	0.6441				
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6563	
0.6575	0.6586	0.6597	0.6605	0.6609	0.6604	0.6579	
0.6521	0.6424	0.6302	0.6182	0.6076	0.5983	0.5902	
0.5828	0.5759		0.5636	0.558	0.5527	0.5476	
0.5427	0.538	0.5335		0.5249			
0.513	0.5093	0.5057				0.492	
0.4887	0.4856		0.4794				
0.4679	0.4651		0.4597				
0.4495	0.447		0.443	0.4474	0.4665	0.4786	
0.4872	0.4944	0.5009					
			0.6032				
			139 0.61				198
0.6212			0.6255				
0.631			0.635			0.639	
0.6403	0.6416		0.6441				
0.6491	0.6503			0.654			
0.6576	0.6588	0.6601					
0.6783	0.6892	0.7015		0.7224			
0.744	0.7498			0.7646			
0.7768		0.784					
0.7995	0.8022	0.8049	0.8075	0.81	0.8124	0.8148	

0.8171	0.8193	0.8215	0.8236	0.8257	0.8277	0.8296	
0.8315	0.8334	0.8352	0.837	0.8388	0.8405	0.8422	
0.8438	0.8454	0.847	0.8488	0.853	0.8611	0.8659	
0.8694	0.8724	0.875					
95	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0.610	9 0.6	124 0.6	139 0.6	154 0.6	169 0.6	183 0.61	L98
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296	
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639	
0.6403	0.6416	0.6429	0.6441	0.6454	0.6466	0.6479	
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6563	
0.6575	0.6586	0.6597	0.6606	0.661	0.6606	0.6582	
0.6524	0.6426	0.6303	0.6182	0.6076	0.5984	0.5902	
0.5828	0.5759	0.5696	0.5636	0.558	0.5527	0.5476	
0.5427	0.538	0.5335	0.5291	0.5249	0.5208	0.5169	
0.513	0.5093	0.5057	0.5021	0.4986	0.4953	0.492	
0.4887	0.4856	0.4825	0.4794	0.4765	0.4735	0.4707	
0.4679	0.4651	0.4624	0.4597	0.4571	0.4545	0.452	
0.4495	0.447	0.4445	0.4415	0.4327	0.4138	0.4029	
0.3951	0.3885	0.3828					
96	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0 610							
0.010	9 0.6	124 0.6	139 0.6	154 0.6	169 0.6	<b>18</b> 3 <b>0.</b> 61	L98
					0.6283 0.6		198
0.6212	0.6226	0.6241	0.6255	0.6269		0.6296	198
0.6212	0.6226	0.6241 0.6337	0.6255	0.6269 0.6364	0.6283 0.6377	0.6296 0.639	198
0.6212 0.631	0.6226 0.6324 0.6416	0.6241 0.6337	0.6255 0.635 0.6441	0.6269 0.6364	0.6283 0.6377 0.6466	0.6296 0.639 0.6479	L98
0.6212 0.631 0.6403	0.6226 0.6324 0.6416	0.6241 0.6337 0.6429 0.6516	0.6255 0.635 0.6441	0.6269 0.6364 0.6454 0.654	0.6283 0.6377 0.6466 0.6552	0.6296 0.639 0.6479 0.6564	198
0.6212 0.631 0.6403 0.6491	0.6226 0.6324 0.6416 0.6503	0.6241 0.6337 0.6429 0.6516 0.66	0.6255 0.635 0.6441 0.6528	0.6269 0.6364 0.6454 0.654 0.6632	0.6283 0.6377 0.6466 0.6552 0.6659	0.6296 0.639 0.6479 0.6564 0.6705	198
0.6212 0.631 0.6403 0.6491 0.6576	0.6226 0.6324 0.6416 0.6503 0.6588	0.6241 0.6337 0.6429 0.6516 0.66 0.7014	0.6255 0.635 0.6441 0.6528 0.6614	0.6269 0.6364 0.6454 0.654 0.6632 0.7224	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306	0.6296 0.639 0.6479 0.6564 0.6705 0.7377	L98 
0.6212 0.631 0.6403 0.6491 0.6576 0.678	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551	0.6255 0.635 0.6441 0.6528 0.6614 0.7128	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729	L98 
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966	L98 
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148	L98 
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744 0.7768 0.7995	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049 0.8215	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76 0.7873 0.8075	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124 0.8277	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148 0.8296	198
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744 0.7768 0.7995 0.8171	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022 0.8193	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049 0.8215 0.8352	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76 0.7873 0.8075 0.8236 0.837	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81 0.8257 0.8388	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124 0.8277	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422	L98 
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744 0.7768 0.7995 0.8171 0.8315 0.8438	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049 0.8215 0.8352	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76 0.7873 0.8075 0.8236 0.837	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81 0.8257 0.8388	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422	198
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744 0.7768 0.7995 0.8171 0.8315 0.8438	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049 0.8215 0.8352 0.8469	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76 0.7873 0.8075 0.8236 0.837	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81 0.8257 0.8388	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422	L98 
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8317	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022 0.8193 0.8334 0.8334 0.8454	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76 0.7873 0.8075 0.8236 0.837 0.8482	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8393	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348	
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8438	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454 0.8291	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76 0.7873 0.8075 0.8236 0.837 0.8482	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8393	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348	0.6094
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8317	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022 0.8193 0.8334 0.8334 0.8454 0.8291	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76 0.7873 0.8075 0.8236 0.837 0.8482 0.6032 139 0.6	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8393	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348 0.6078	0.6094
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8317	0.6226 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454 0.8291 0.6	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269 0.6016 124 0.6 0.6241	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76 0.7873 0.8075 0.8236 0.837 0.8482 0.6032 139 0.6 0.6255	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8393 0.6063	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348 0.6078 183 0.6296	0.6094
0.6212 0.631 0.6403 0.6491 0.6576 0.678 0.744 0.7768 0.7995 0.8171 0.8315 0.8438 0.8317 97 0.610 0.6212 0.631	0.6226 0.6324 0.6324 0.6416 0.6503 0.6588 0.689 0.7498 0.7805 0.8022 0.8193 0.8334 0.8454 0.8291 0.6 9 0.6 0.6226 0.6324	0.6241 0.6337 0.6429 0.6516 0.66 0.7014 0.7551 0.784 0.8049 0.8215 0.8352 0.8469 0.8269 0.6016 124  0.6 0.6241 0.6337	0.6255 0.635 0.6441 0.6528 0.6614 0.7128 0.76 0.7873 0.8075 0.8236 0.837 0.8482 0.6032 139 0.6 0.6255	0.6269 0.6364 0.6454 0.654 0.6632 0.7224 0.7646 0.7905 0.81 0.8257 0.8388 0.8469	0.6283 0.6377 0.6466 0.6552 0.6659 0.7306 0.7689 0.7936 0.8124 0.8277 0.8405 0.8393 0.6063 169 0.6 0.6283 0.6377	0.6296 0.639 0.6479 0.6564 0.6705 0.7377 0.7729 0.7966 0.8148 0.8296 0.8422 0.8348 0.6078 183 0.6296 0.639	0.6094

0.6575	0.6586	0.6597	0.6606	0.6611	0.6607	0.6584	
0.6527	0.6429	0.6304	0.6183	0.6076	0.5984	0.5902	
0.5828	0.5759	0.5696	0.5636	0.558	0.5527	0.5476	
0.5427	0.538	0.5335	0.5291	0.5249	0.5208	0.5169	
0.513	0.5093	0.5057	0.5021	0.4986	0.4953	0.492	
0.4887	0.4856	0.4825	0.4794	0.4765	0.4735	0.4707	
0.4679	0.4651	0.4624	0.4597	0.4571	0.4545	0.452	
0.4495	0.447	0.4446	0.4429	0.4474	0.4667	0.4786	
0.4872	0.4944	0.5009					
98	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0.6109	0.6	6124 0.6	139 0.6	154 0.6	169 0.6	183 0.6	198
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296	
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639	
0.6403	0.6416	0.6429	0.6441	0.6454	0.6466	0.6479	
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6564	
0.6576	0.6588	0.66	0.6614	0.6632	0.6658	0.6702	
0.6778	0.6888	0.7013	0.7128	0.7224	0.7306	0.7377	
0.744	0.7498	0.7551	0.76	0.7646	0.7689	0.7729	
0.7768	0.7805	0.784	0.7873	0.7905	0.7936	0.7966	
0.7995	0.8022	0.8049	0.8075	0.81	0.8124	0.8148	
0.8171	0.8193	0.8215	0.8236	0.8257	0.8277	0.8296	
0.8315	0.8334	0.8352	0.837	0.8388	0.8405	0.8422	
0.8438	0.8454	0.847	0.8488	0.853	0.8612	0.8659	
0.8694	0.8724	0.875					
99	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094
0.6109	0.6	6124 0.6	139 0.6	154 0.6	169 0.6	183 0.6	198
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296	
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639	
0.6403	0.6416	0.6429	0.6441	0.6454	0.6466	0.6479	
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6564	
0.6575	0.6587	0.6597	0.6606	0.6612	0.6609	0.6587	
0.653	0.6431	0.6305	0.6183	0.6076	0.5984	0.5902	
0.5828	0.5759	0.5696	0.5636	0.558	0.5527	0.5476	
0.5427	0.538	0.5335	0.5291	0.5249	0.5208	0.5169	
0.513	0.5093	0.5057	0.5021	0.4986	0.4953	0.492	
0.4887	0.4856	0.4825	0.4794	0.4765	0.4735	0.4707	
0.4679	0.4651	0.4624	0.4597	0.4571	0.4545	0.452	
0.4495	0.447	0.4445	0.4415	0.4327	0.4137	0.4029	
0.3951	0.3885	0.3828					
100	0.6	0.6016	0.6032	0.6047	0.6063	0.6078	0.6094

0.6109	0.6124	0.6139	0.6154	0.6169	0.6183	0.6198
0.6212	0.6226	0.6241	0.6255	0.6269	0.6283	0.6296
0.631	0.6324	0.6337	0.635	0.6364	0.6377	0.639
0.6403	0.6416	0.6429	0.6441	0.6454	0.6466	0.6479
0.6491	0.6503	0.6516	0.6528	0.654	0.6552	0.6564
0.6576	0.6587	0.66	0.6614	0.6631	0.6656	0.67
0.6775	0.6886	0.7012	0.7127	0.7224	0.7306	0.7377
0.744	0.7498	0.7551	0.76	0.7646	0.7689	0.7729
0.7768	0.7805	0.784	0.7873	0.7905	0.7936	0.7966
0.7995	0.8022	0.8049	0.8075	0.81	0.8124	0.8148
0.8171	0.8193	0.8215	0.8236	0.8257	0.8277	0.8296
0.8315	0.8334	0.8352	0.837	0.8388	0.8405	0.8422
0.8438	0.8454	0.8469	0.8482	0.8469	0.8392	0.8348
0.8317	0.8291	0.8269				

# 3、结果图形

