100
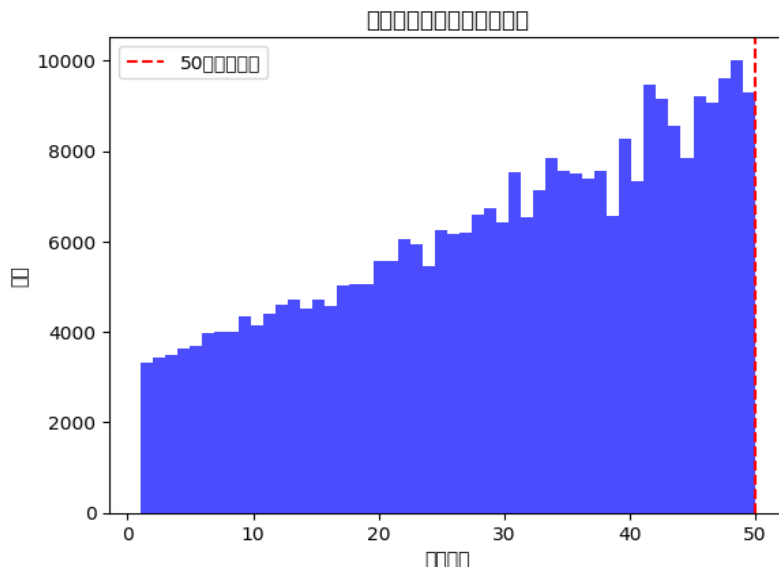
1.

50

50

2.

50

1.   numpy.random.permutation
2.
3.
4.

✓ 运行成功
模拟设置：100囚犯，每人50次尝试，10000轮实验
随机策略成功率：0.0000（耗时：0.44秒）
循环策略成功率：0.3081（耗时：2.11秒）
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 39057 (\N{CJK UNIFIED IDEOGRAPH-9891}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 29575 (\N{CJK UNIFIED IDEOGRAPH-7387}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 24490 (\N{CJK UNIFIED IDEOGRAPH-5FAA}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 29615 (\N{CJK UNIFIED IDEOGRAPH-73AF}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 31574 (\N{CJK UNIFIED IDEOGRAPH-7B56}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 30053 (\N{CJK UNIFIED IDEOGRAPH-7565}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 19979 (\N{CJK UNIFIED IDEOGRAPH-4E0B}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 30340 (\N{CJK UNIFIED IDEOGRAPH-7684}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 38271 (\N{CJK UNIFIED IDEOGRAPH-957F}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 24230 (\N{CJK UNIFIED IDEOGRAPH-5EA6}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 20998 (\N{CJK UNIFIED IDEOGRAPH-5206}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 24067 (\N{CJK UNIFIED IDEOGRAPH-5E03}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 27425 (\N{CJK UNIFIED IDEOGRAPH-6B21}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 23581 (\N{CJK UNIFIED IDEOGRAPH-5C1D}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 35797 (\N{CJK UNIFIED IDEOGRAPH-8BD5}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 38480 (\N{CJK UNIFIED IDEOGRAPH-9650}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
/opt/mamba/lib/python3.10/site-packages/IPython/core/pylabtools.py:152: UserWarning: Glyph 21046 (\N{CJK UNIFIED IDEOGRAPH-5236}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)

不同参数下的成功率：
N=100, K=25: 1.0000
N=200, K=25: 1.0000
N=200, K=50: 1.0000
N=200, K=75: 1.0000