

```
#!/usr/bin/python
```

```
"""
Output lines selected randomly from a file
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$Id: randline.py,v 1.4 2010/04/05 20:04:43 eggert Exp $
"""
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```
import random, sys
from optparse import OptionParser
```

```
class randline:
```

```
    def __init__(self, filename):
        f = open(filename, 'r')
        self.lines = f.readlines()
        f.close()

    def chooseline(self):
        return random.choice(self.lines)
```

```
def main():
```

```
    version_msg = "%prog 2.0"
    usage_msg = """%prog [OPTION]... FILE
Output randomly selected lines from FILE."""
```

```
    parser = OptionParser(version=version_msg,
                           usage=usage_msg)
    parser.add_option("-n", "--numlines",
                      action="store", dest="numlines", default=1,
                      help="output NUMLINES lines (default 1)")
    options, args = parser.parse_args(sys.argv[1:])
```

```
    try:
        numlines = int(options.numlines)
    except:
        parser.error("invalid NUMLINES: {0}".
                     format(options.numlines))
    if numlines < 0:
        parser.error("negative count: {0}".
                     format(numlines))
    if len(args) != 1:
        parser.error("wrong number of operands")
    input_file = args[0]
```

```
    try:
        generator = randline(input_file)
```

```
        for index in range(numlines):
            sys.stdout.write(generator.chooseline())
    except IOError as (errno, strerror):
        parser.error("I/O error({0}): {1}".
                     format(errno, strerror))

if __name__ == "__main__":
    main()
```