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- [Betting algorithm](#)

Betting algorithm

```
clear

get_user_input = 0;

if get_user_input
    % Get starting value of bank
    prompt = 'Welcome to stanley casino. How much money did you bring? (starting size of bank) ';
    returns = input(prompt,'s');
    bank = str2num(returns);

    % Max turns
    prompt = 'Maximum number of turns? (Inf for unlimited)';
    returns = input(prompt,'s');
    max_turns = str2num(returns);

    % Autoplay mode
    prompt = 'Autoplay martingale mode? (y/n)';
    returns = input(prompt,'s');
    autoplay = returns;
else
    bank=10000;
    max_turns = 1000;
    autoplay = 'y';

end

% Initialize histories
earnings = 0;
bank_hist = bank;
earnings_hist = earnings;

do_continue = 1;
Nplays = 0;
autobet0 = 1; % Starting bet for autobet mode.
bet_predict = autobet0;

while do_continue
    %autobet0 = bank*0.01;
    Nplays = Nplays + 1;

    if strcmp(autoplay,'n');
        % Get user's bet
        prompt = ['Balance = ' num2str(bank) '. Enter your bet, or press q to quit: '];
        returns = input(prompt,'s');
        if strcmp(returns,'q'); do_continue = 0;
    end
end
```

```

    end
    bet=str2num(returns);
else
    prompt = ['Balance = ' num2str(bank) '. Enter your bet, or press q to quit: '];
    fprintf(prompt);
    bet=bet_predict;
    fprintf([num2str(bet) '\n']);
end

if randn(1,1) > 0
    fprintf('You won \n');
    winnings = bet;
    bet_predict = autobet0;
else
    fprintf('You lost \n');
    winnings = -1*bet;
    bet_predict = bet*2;
end

% Update bank, recording histories
bank = bank + winnings;
earnings = earnings + winnings;

bank_hist = [bank_hist bank];
earnings_hist = [earnings_hist earnings];

if bank <= 0; fprintf('You are out of money!'); do_continue = 0; end
if Nplays > max_turns; fprintf('Out of turns. Simulation ended.');
```

```

end

if any(isinf(bank_hist))
    figure; plot(0:Nplays,earnings_hist);xlabel('Turn number'); ylabel('Net earnings');
else
    figure; plot(0:Nplays,bank_hist);xlabel('Turn number'); ylabel('Bank account');
end
```

```

Balance = 10000. Enter your bet, or press q to quit: 1
You lost
Balance = 9999. Enter your bet, or press q to quit: 2
You lost
Balance = 9997. Enter your bet, or press q to quit: 4
You lost
Balance = 9993. Enter your bet, or press q to quit: 8
You won
Balance = 10001. Enter your bet, or press q to quit: 1
You won
Balance = 10002. Enter your bet, or press q to quit: 1
You lost
Balance = 10001. Enter your bet, or press q to quit: 2
You lost
Balance = 9999. Enter your bet, or press q to quit: 4
You lost
Balance = 9995. Enter your bet, or press q to quit: 8
```

You won
Balance = 10003. Enter your bet, or press q to quit: 1
You lost
Balance = 10002. Enter your bet, or press q to quit: 2
You lost
Balance = 10000. Enter your bet, or press q to quit: 4
You won
Balance = 10004. Enter your bet, or press q to quit: 1
You won
Balance = 10005. Enter your bet, or press q to quit: 1
You won
Balance = 10006. Enter your bet, or press q to quit: 1
You lost
Balance = 10005. Enter your bet, or press q to quit: 2
You won
Balance = 10007. Enter your bet, or press q to quit: 1
You won
Balance = 10008. Enter your bet, or press q to quit: 1
You lost
Balance = 10007. Enter your bet, or press q to quit: 2
You lost
Balance = 10005. Enter your bet, or press q to quit: 4
You won
Balance = 10009. Enter your bet, or press q to quit: 1
You lost
Balance = 10008. Enter your bet, or press q to quit: 2
You lost
Balance = 10006. Enter your bet, or press q to quit: 4
You won
Balance = 10010. Enter your bet, or press q to quit: 1
You won
Balance = 10011. Enter your bet, or press q to quit: 1
You lost
Balance = 10010. Enter your bet, or press q to quit: 2
You won
Balance = 10012. Enter your bet, or press q to quit: 1
You won
Balance = 10013. Enter your bet, or press q to quit: 1
You lost
Balance = 10012. Enter your bet, or press q to quit: 2
You won
Balance = 10014. Enter your bet, or press q to quit: 1
You won
Balance = 10015. Enter your bet, or press q to quit: 1
You won
Balance = 10016. Enter your bet, or press q to quit: 1
You lost
Balance = 10015. Enter your bet, or press q to quit: 2
You won
Balance = 10017. Enter your bet, or press q to quit: 1
You won
Balance = 10018. Enter your bet, or press q to quit: 1
You lost
Balance = 10017. Enter your bet, or press q to quit: 2
You lost
Balance = 10015. Enter your bet, or press q to quit: 4
You lost

Balance = 10011. Enter your bet, or press q to quit: 8
You lost
Balance = 10003. Enter your bet, or press q to quit: 16
You won
Balance = 10019. Enter your bet, or press q to quit: 1
You lost
Balance = 10018. Enter your bet, or press q to quit: 2
You lost
Balance = 10016. Enter your bet, or press q to quit: 4
You won
Balance = 10020. Enter your bet, or press q to quit: 1
You lost
Balance = 10019. Enter your bet, or press q to quit: 2
You won
Balance = 10021. Enter your bet, or press q to quit: 1
You won
Balance = 10022. Enter your bet, or press q to quit: 1
You won
Balance = 10023. Enter your bet, or press q to quit: 1
You won
Balance = 10024. Enter your bet, or press q to quit: 1
You won
Balance = 10025. Enter your bet, or press q to quit: 1
You won
Balance = 10026. Enter your bet, or press q to quit: 1
You won
Balance = 10027. Enter your bet, or press q to quit: 1
You won
Balance = 10028. Enter your bet, or press q to quit: 1
You lost
Balance = 10027. Enter your bet, or press q to quit: 2
You lost
Balance = 10025. Enter your bet, or press q to quit: 4
You lost
Balance = 10021. Enter your bet, or press q to quit: 8
You won
Balance = 10029. Enter your bet, or press q to quit: 1
You won
Balance = 10030. Enter your bet, or press q to quit: 1
You lost
Balance = 10029. Enter your bet, or press q to quit: 2
You lost
Balance = 10027. Enter your bet, or press q to quit: 4
You lost
Balance = 10023. Enter your bet, or press q to quit: 8
You won
Balance = 10031. Enter your bet, or press q to quit: 1
You lost
Balance = 10030. Enter your bet, or press q to quit: 2
You won
Balance = 10032. Enter your bet, or press q to quit: 1
You lost
Balance = 10031. Enter your bet, or press q to quit: 2
You lost
Balance = 10029. Enter your bet, or press q to quit: 4
You lost
Balance = 10025. Enter your bet, or press q to quit: 8

You lost
Balance = 10017. Enter your bet, or press q to quit: 16
You lost
Balance = 10001. Enter your bet, or press q to quit: 32
You won
Balance = 10033. Enter your bet, or press q to quit: 1
You lost
Balance = 10032. Enter your bet, or press q to quit: 2
You lost
Balance = 10030. Enter your bet, or press q to quit: 4
You won
Balance = 10034. Enter your bet, or press q to quit: 1
You lost
Balance = 10033. Enter your bet, or press q to quit: 2
You lost
Balance = 10031. Enter your bet, or press q to quit: 4
You lost
Balance = 10027. Enter your bet, or press q to quit: 8
You won
Balance = 10035. Enter your bet, or press q to quit: 1
You lost
Balance = 10034. Enter your bet, or press q to quit: 2
You won
Balance = 10036. Enter your bet, or press q to quit: 1
You lost
Balance = 10035. Enter your bet, or press q to quit: 2
You lost
Balance = 10033. Enter your bet, or press q to quit: 4
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Balance = 10029. Enter your bet, or press q to quit: 8
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Balance = 10038. Enter your bet, or press q to quit: 1
You won
Balance = 10039. Enter your bet, or press q to quit: 1
You won
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You won
Balance = 10041. Enter your bet, or press q to quit: 1
You lost
Balance = 10040. Enter your bet, or press q to quit: 2
You won
Balance = 10042. Enter your bet, or press q to quit: 1
You lost
Balance = 10041. Enter your bet, or press q to quit: 2
You won
Balance = 10043. Enter your bet, or press q to quit: 1
You won
Balance = 10044. Enter your bet, or press q to quit: 1
You won
Balance = 10045. Enter your bet, or press q to quit: 1
You lost
Balance = 10044. Enter your bet, or press q to quit: 2
You lost
Balance = 10042. Enter your bet, or press q to quit: 4
You won

Balance = 10046. Enter your bet, or press q to quit: 1
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Balance = 10045. Enter your bet, or press q to quit: 2
You won
Balance = 10047. Enter your bet, or press q to quit: 1
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Balance = 10048. Enter your bet, or press q to quit: 1
You lost
Balance = 10047. Enter your bet, or press q to quit: 2
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Balance = 10048. Enter your bet, or press q to quit: 2
You lost
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Balance = 10050. Enter your bet, or press q to quit: 1
You won
Balance = 10051. Enter your bet, or press q to quit: 1
You lost
Balance = 10050. Enter your bet, or press q to quit: 2
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Balance = 10048. Enter your bet, or press q to quit: 4
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Balance = 10052. Enter your bet, or press q to quit: 1
You lost
Balance = 10051. Enter your bet, or press q to quit: 2
You lost
Balance = 10049. Enter your bet, or press q to quit: 4
You lost
Balance = 10045. Enter your bet, or press q to quit: 8
You lost
Balance = 10037. Enter your bet, or press q to quit: 16
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Balance = 10053. Enter your bet, or press q to quit: 1
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Balance = 10052. Enter your bet, or press q to quit: 2
You won
Balance = 10054. Enter your bet, or press q to quit: 1
You lost
Balance = 10053. Enter your bet, or press q to quit: 2
You lost
Balance = 10051. Enter your bet, or press q to quit: 4
You lost
Balance = 10047. Enter your bet, or press q to quit: 8
You won
Balance = 10055. Enter your bet, or press q to quit: 1
You lost
Balance = 10054. Enter your bet, or press q to quit: 2
You lost
Balance = 10052. Enter your bet, or press q to quit: 4
You lost
Balance = 10048. Enter your bet, or press q to quit: 8
You won
Balance = 10056. Enter your bet, or press q to quit: 1

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You won
Balance = 10057. Enter your bet, or press q to quit: 1
You won
Balance = 10058. Enter your bet, or press q to quit: 1
You won
Balance = 10059. Enter your bet, or press q to quit: 1
You won
Balance = 10060. Enter your bet, or press q to quit: 1
You won
Balance = 10061. Enter your bet, or press q to quit: 1
You won
Balance = 10062. Enter your bet, or press q to quit: 1
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Balance = 10061. Enter your bet, or press q to quit: 2
You won
Balance = 10063. Enter your bet, or press q to quit: 1
You won
Balance = 10064. Enter your bet, or press q to quit: 1
You lost
Balance = 10063. Enter your bet, or press q to quit: 2
You lost
Balance = 10061. Enter your bet, or press q to quit: 4
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Balance = 10065. Enter your bet, or press q to quit: 1
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Balance = 10064. Enter your bet, or press q to quit: 2
You lost
Balance = 10062. Enter your bet, or press q to quit: 4
You lost
Balance = 10058. Enter your bet, or press q to quit: 8
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Balance = 10050. Enter your bet, or press q to quit: 16
You lost
Balance = 10034. Enter your bet, or press q to quit: 32
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Balance = 10066. Enter your bet, or press q to quit: 1
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Balance = 10067. Enter your bet, or press q to quit: 1
You lost
Balance = 10066. Enter your bet, or press q to quit: 2
You lost
Balance = 10064. Enter your bet, or press q to quit: 4
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Balance = 10068. Enter your bet, or press q to quit: 1
You won
Balance = 10069. Enter your bet, or press q to quit: 1
You won
Balance = 10070. Enter your bet, or press q to quit: 1
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Balance = 10071. Enter your bet, or press q to quit: 1
You won
Balance = 10072. Enter your bet, or press q to quit: 1
You lost
Balance = 10071. Enter your bet, or press q to quit: 2
You won
Balance = 10073. Enter your bet, or press q to quit: 1
You lost
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Balance = 10072. Enter your bet, or press q to quit: 2
You won
Balance = 10074. Enter your bet, or press q to quit: 1
You lost
Balance = 10073. Enter your bet, or press q to quit: 2
You lost
Balance = 10071. Enter your bet, or press q to quit: 4
You won
Balance = 10075. Enter your bet, or press q to quit: 1
You lost
Balance = 10074. Enter your bet, or press q to quit: 2
You won
Balance = 10076. Enter your bet, or press q to quit: 1
You won
Balance = 10077. Enter your bet, or press q to quit: 1
You lost
Balance = 10076. Enter your bet, or press q to quit: 2
You won
Balance = 10078. Enter your bet, or press q to quit: 1
You lost
Balance = 10077. Enter your bet, or press q to quit: 2
You won
Balance = 10079. Enter your bet, or press q to quit: 1
You lost
Balance = 10078. Enter your bet, or press q to quit: 2
You lost
Balance = 10076. Enter your bet, or press q to quit: 4
You lost
Balance = 10072. Enter your bet, or press q to quit: 8
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You lost
Balance = 10048. Enter your bet, or press q to quit: 32
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You lost
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You lost
Balance = 10079. Enter your bet, or press q to quit: 4
You lost
Balance = 10075. Enter your bet, or press q to quit: 8
You won
Balance = 10083. Enter your bet, or press q to quit: 1
You won
Balance = 10084. Enter your bet, or press q to quit: 1
You lost
Balance = 10083. Enter your bet, or press q to quit: 2
You lost
Balance = 10081. Enter your bet, or press q to quit: 4
You lost
Balance = 10077. Enter your bet, or press q to quit: 8
You won
Balance = 10085. Enter your bet, or press q to quit: 1
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You lost
Balance = 10084. Enter your bet, or press q to quit: 2
You lost
Balance = 10082. Enter your bet, or press q to quit: 4
You won
Balance = 10086. Enter your bet, or press q to quit: 1
You lost
Balance = 10085. Enter your bet, or press q to quit: 2
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Balance = 10079. Enter your bet, or press q to quit: 8
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Balance = 10088. Enter your bet, or press q to quit: 1
You lost
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You won
Balance = 10090. Enter your bet, or press q to quit: 1
You lost
Balance = 10089. Enter your bet, or press q to quit: 2
You won
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You lost
Balance = 10090. Enter your bet, or press q to quit: 2
You won
Balance = 10092. Enter your bet, or press q to quit: 1
You lost
Balance = 10091. Enter your bet, or press q to quit: 2
You won
Balance = 10093. Enter your bet, or press q to quit: 1
You won
Balance = 10094. Enter your bet, or press q to quit: 1
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You won
Balance = 10095. Enter your bet, or press q to quit: 1
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You won
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You won
Balance = 10099. Enter your bet, or press q to quit: 1
You won
Balance = 10100. Enter your bet, or press q to quit: 1
You lost
Balance = 10099. Enter your bet, or press q to quit: 2
You lost
Balance = 10097. Enter your bet, or press q to quit: 4
You won
Balance = 10101. Enter your bet, or press q to quit: 1
You won

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Balance = 10102. Enter your bet, or press q to quit: 1
You won
Balance = 10103. Enter your bet, or press q to quit: 1
You won
Balance = 10104. Enter your bet, or press q to quit: 1
You lost
Balance = 10103. Enter your bet, or press q to quit: 2
You won
Balance = 10105. Enter your bet, or press q to quit: 1
You won
Balance = 10106. Enter your bet, or press q to quit: 1
You lost
Balance = 10105. Enter your bet, or press q to quit: 2
You lost
Balance = 10103. Enter your bet, or press q to quit: 4
You lost
Balance = 10099. Enter your bet, or press q to quit: 8
You won
Balance = 10107. Enter your bet, or press q to quit: 1
You lost
Balance = 10106. Enter your bet, or press q to quit: 2
You won
Balance = 10108. Enter your bet, or press q to quit: 1
You lost
Balance = 10107. Enter your bet, or press q to quit: 2
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Balance = 10109. Enter your bet, or press q to quit: 1
You won
Balance = 10110. Enter your bet, or press q to quit: 1
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Balance = 10111. Enter your bet, or press q to quit: 1
You won
Balance = 10112. Enter your bet, or press q to quit: 1
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Balance = 10111. Enter your bet, or press q to quit: 2
You won
Balance = 10113. Enter your bet, or press q to quit: 1
You won
Balance = 10114. Enter your bet, or press q to quit: 1
You won
Balance = 10115. Enter your bet, or press q to quit: 1
You lost
Balance = 10114. Enter your bet, or press q to quit: 2
You lost
Balance = 10112. Enter your bet, or press q to quit: 4
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Balance = 10116. Enter your bet, or press q to quit: 1
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Balance = 10115. Enter your bet, or press q to quit: 2
You won
Balance = 10117. Enter your bet, or press q to quit: 1
You lost
Balance = 10116. Enter your bet, or press q to quit: 2
You lost
Balance = 10114. Enter your bet, or press q to quit: 4
You lost
Balance = 10110. Enter your bet, or press q to quit: 8
```

You lost
Balance = 10102. Enter your bet, or press q to quit: 16
You won
Balance = 10118. Enter your bet, or press q to quit: 1
You won
Balance = 10119. Enter your bet, or press q to quit: 1
You lost
Balance = 10118. Enter your bet, or press q to quit: 2
You lost
Balance = 10116. Enter your bet, or press q to quit: 4
You won
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You won
Balance = 10121. Enter your bet, or press q to quit: 1
You won
Balance = 10122. Enter your bet, or press q to quit: 1
You lost
Balance = 10121. Enter your bet, or press q to quit: 2
You lost
Balance = 10119. Enter your bet, or press q to quit: 4
You lost
Balance = 10115. Enter your bet, or press q to quit: 8
You won
Balance = 10123. Enter your bet, or press q to quit: 1
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Balance = 10122. Enter your bet, or press q to quit: 2
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Balance = 10124. Enter your bet, or press q to quit: 1
You lost
Balance = 10123. Enter your bet, or press q to quit: 2
You won
Balance = 10125. Enter your bet, or press q to quit: 1
You won
Balance = 10126. Enter your bet, or press q to quit: 1
You won
Balance = 10127. Enter your bet, or press q to quit: 1
You lost
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You lost
Balance = 10124. Enter your bet, or press q to quit: 4
You lost
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You won
Balance = 10128. Enter your bet, or press q to quit: 1
You won
Balance = 10129. Enter your bet, or press q to quit: 1
You lost
Balance = 10128. Enter your bet, or press q to quit: 2
You won
Balance = 10130. Enter your bet, or press q to quit: 1
You lost
Balance = 10129. Enter your bet, or press q to quit: 2
You won
Balance = 10131. Enter your bet, or press q to quit: 1
You lost
Balance = 10130. Enter your bet, or press q to quit: 2
You lost

Balance = 10128. Enter your bet, or press q to quit: 4
You lost
Balance = 10124. Enter your bet, or press q to quit: 8
You won
Balance = 10132. Enter your bet, or press q to quit: 1
You won
Balance = 10133. Enter your bet, or press q to quit: 1
You lost
Balance = 10132. Enter your bet, or press q to quit: 2
You lost
Balance = 10130. Enter your bet, or press q to quit: 4
You won
Balance = 10134. Enter your bet, or press q to quit: 1
You won
Balance = 10135. Enter your bet, or press q to quit: 1
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Balance = 10134. Enter your bet, or press q to quit: 2
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You lost
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You lost
Balance = 10129. Enter your bet, or press q to quit: 8
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You won
Balance = 10138. Enter your bet, or press q to quit: 1
You won
Balance = 10139. Enter your bet, or press q to quit: 1
You lost
Balance = 10138. Enter your bet, or press q to quit: 2
You won
Balance = 10140. Enter your bet, or press q to quit: 1
You lost
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You won
Balance = 10141. Enter your bet, or press q to quit: 1
You won
Balance = 10142. Enter your bet, or press q to quit: 1
You lost
Balance = 10141. Enter your bet, or press q to quit: 2
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Balance = 10143. Enter your bet, or press q to quit: 1
You won
Balance = 10144. Enter your bet, or press q to quit: 1
You lost
Balance = 10143. Enter your bet, or press q to quit: 2
You lost
Balance = 10141. Enter your bet, or press q to quit: 4
You won
Balance = 10145. Enter your bet, or press q to quit: 1
You lost
Balance = 10144. Enter your bet, or press q to quit: 2
You won
Balance = 10146. Enter your bet, or press q to quit: 1

You won
Balance = 10147. Enter your bet, or press q to quit: 1
You won
Balance = 10148. Enter your bet, or press q to quit: 1
You lost
Balance = 10147. Enter your bet, or press q to quit: 2
You lost
Balance = 10145. Enter your bet, or press q to quit: 4
You won
Balance = 10149. Enter your bet, or press q to quit: 1
You won
Balance = 10150. Enter your bet, or press q to quit: 1
You won
Balance = 10151. Enter your bet, or press q to quit: 1
You lost
Balance = 10150. Enter your bet, or press q to quit: 2
You won
Balance = 10152. Enter your bet, or press q to quit: 1
You won
Balance = 10153. Enter your bet, or press q to quit: 1
You won
Balance = 10154. Enter your bet, or press q to quit: 1
You won
Balance = 10155. Enter your bet, or press q to quit: 1
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Balance = 10154. Enter your bet, or press q to quit: 2
You won
Balance = 10156. Enter your bet, or press q to quit: 1
You lost
Balance = 10155. Enter your bet, or press q to quit: 2
You lost
Balance = 10153. Enter your bet, or press q to quit: 4
You won
Balance = 10157. Enter your bet, or press q to quit: 1
You lost
Balance = 10156. Enter your bet, or press q to quit: 2
You lost
Balance = 10154. Enter your bet, or press q to quit: 4
You won
Balance = 10158. Enter your bet, or press q to quit: 1
You won
Balance = 10159. Enter your bet, or press q to quit: 1
You won
Balance = 10160. Enter your bet, or press q to quit: 1
You won
Balance = 10161. Enter your bet, or press q to quit: 1
You lost
Balance = 10160. Enter your bet, or press q to quit: 2
You won
Balance = 10162. Enter your bet, or press q to quit: 1
You lost
Balance = 10161. Enter your bet, or press q to quit: 2
You won
Balance = 10163. Enter your bet, or press q to quit: 1
You won
Balance = 10164. Enter your bet, or press q to quit: 1
You won

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Balance = 10167. Enter your bet, or press q to quit: 1
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Balance = 10171. Enter your bet, or press q to quit: 1
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Balance = 10172. Enter your bet, or press q to quit: 2
You won
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You won

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You won
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You lost
Balance = 10343. Enter your bet, or press q to quit: 4
You lost
Balance = 10339. Enter your bet, or press q to quit: 8
You lost
Balance = 10331. Enter your bet, or press q to quit: 16
You won
Balance = 10347. Enter your bet, or press q to quit: 1
You lost
Balance = 10346. Enter your bet, or press q to quit: 2
You lost
Balance = 10344. Enter your bet, or press q to quit: 4
You won
Balance = 10348. Enter your bet, or press q to quit: 1
You won
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You lost
Balance = 10348. Enter your bet, or press q to quit: 2
You won
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You lost
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You won
Balance = 10351. Enter your bet, or press q to quit: 1
You lost
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You lost
Balance = 10336. Enter your bet, or press q to quit: 16
You won
Balance = 10352. Enter your bet, or press q to quit: 1

You won
Balance = 10353. Enter your bet, or press q to quit: 1
You lost
Balance = 10352. Enter your bet, or press q to quit: 2
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Balance = 10355. Enter your bet, or press q to quit: 1
You lost
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You won
Balance = 10356. Enter your bet, or press q to quit: 1
You lost
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You won
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You lost

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You lost
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You won
Balance = 10394. Enter your bet, or press q to quit: 1
You won
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You won

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You won
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You won
Balance = 10442. Enter your bet, or press q to quit: 1

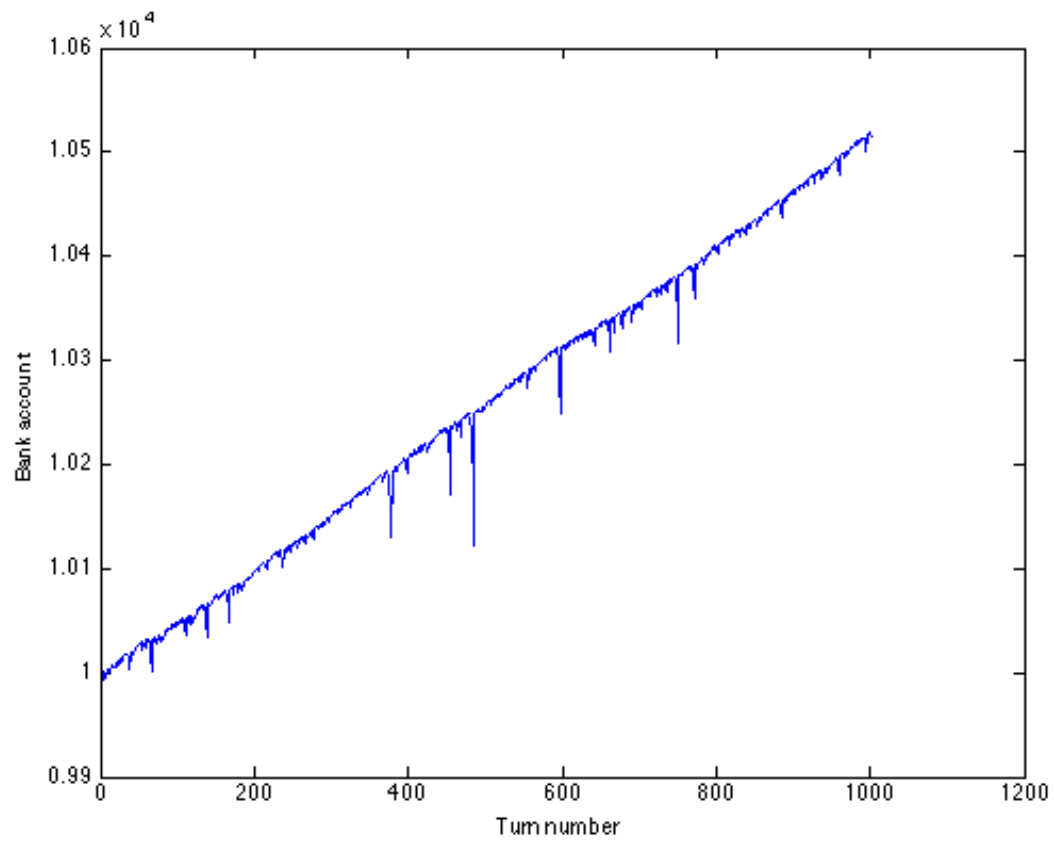
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You won
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Balance = 10456. Enter your bet, or press q to quit: 1
You won

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Balance = 10459. Enter your bet, or press q to quit: 1
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You lost

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You lost
Balance = 10518. Enter your bet, or press q to quit: 2
You lost
Out of turns. Simulation ended.
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