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wash := proc( ) local w, newsock; global basket, basketl; w := rand(1..basketl) ( ) : newsock
      := basket[w] : basket[w] := basket[basketl] : basketl := basketl - 1 : newsock end;

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proc( )

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```

  local w, newsock;

```

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  global basket, basketl;

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```

  w := rand(1..basketl) ( );

```

```

  newsock := basket[w];

```

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  basket[w] := basket[basketl];

```

```

  basketl := basketl - 1;

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```

  newsock

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```

end proc

```

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noits := 1000 : N := 'N': for N from 3 to 20 by 1 do total := 0 : for iter from 1 to noits do answer
  := 0 : for i from 1 to N do basket[2 i - 1] := i : basket[2 i] := i od : basketl := 2 N : bed
  := { } : while basketl > 0 do newsock := wash( ) : if newsock ∈ bed then bed := bed
  \ {newsock} else bed := bed ∪ {newsock} : answer := max(answer, nops(bed)) fi od : total
  := total + answer : od : print( N, evalf( ( total / noits ) ) ) od:

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3, 2.330000000

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4, 2.938000000

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5, 3.547000000

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6, 4.147000000

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7, 4.791000000

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8, 5.289000000

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9, 5.937000000

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10, 6.431000000

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11, 7.022000000

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12, 7.635000000

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13, 8.154000000

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14, 8.692000000

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15, 9.180000000

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16, 9.744000000

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17, 10.387000000

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18, 10.887000000

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19, 11.477000000

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20, 12.095000000

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(1)

(2)