```
1 int N
                                                   int count
                                                 rezum sum (N);
                                                             sum (int nun)
                                                                                                   € if (num % 2 == 1)

count = Sum (num)+1;
                                                                                                  3 count = sum (num);
2 q, \frac{8}{1} \frac{1}{4} \frac{1}{1-A} \frac{1}{1-A} \frac{1}{1-A} \frac{1}{1-A} \frac{1}{1-A}
                                             6. S = \frac{8}{16} + \frac{1}{4} = 0 + \frac{1}{4} + \frac{2}{16} + \frac{2}{64} + \frac{4}{256} \dots

4S = 4 + \frac{1}{16} + \frac{2}{64} + \frac{4}{256} \dots

4S - S = 1 + \frac{1}{4} + \frac{2}{16} + \frac{2}{64} + \frac{4}{16} + \frac{4}{64} + \frac{4}{256} \dots

3S = 1 + \frac{1}{4} + \frac{2}{16} + \frac{2}{64} + \frac{4}{256} + \frac{4}{256
      3. EN-2 + FN3 + FN-4 ... +F, = FN-2
                                                                                                   = FN-1 + EN-2 - Z
EN-3 + FN-4:..+F1 = FN-2 + FN-3 - Z
                                                                                                                                                                                F2 + F1 = F4 - 2
                                                                                                                                                                           F/2+ F. = F3+F/2-2
          F,=1
                                                                                                                                                                                                        F. = Fz+F/ - 2
F=1
                                                                                                                                                                                                        0= F2 - 2
                                                                                                                                                                                                                (F1+Fg)-2
                                                                                                                                                                                                       0= 1+1-2
```

$$n=1 \frac{1^{2}(1+1)^{2}}{4} = 1 \qquad 1^{3} = 1$$

$$n^{2}(n+1)^{2} + (n+1)^{3} = \frac{(n+1)^{2}(n+2)^{2}}{4}$$

$$\frac{n^{2}}{4} + (n+1) = \frac{(n+2)^{2}}{4}$$

$$n^{2} + 4n + 4 = (n+2)^{2}$$

$$n^{2} + 4n + 4 = n^{2} + 2n + 2n + 4$$

$$n^{2} + 4n + 4 = n^{2} + 4n + 4$$