```
Take 'n' Integer from user & point the following jories:
(i)
         N-2 · - . - 1
                                   of ibonacci
(iii)
    1 3 5 · · · · odd no € N
      4 6 . . . . even no : & N
(iv)
    0 1 1 2 3 5 - · · · Last filing & N
 (v)
   1248/6...ZKEN
  JP4 8
   87654721
     1 1 2 3 5 8
      2 4 8
```

fibonacci socies:

$$f(h(n)) = f(h(n-1)) + f(h-2)$$
 $n>2$ = grecovernce grelation

$$fib(1) = 0$$

$$fib(2) = 1$$
Base Cases

$$covon = f p + s p$$

$$3 = 1 + 2$$

$$f p = s p$$

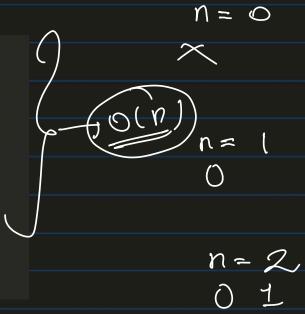
cover = 3
$$f p = 1$$

$$8 p = 2$$
3

fibonacci Code

```
int fp = 0, sp = 1;
for (int i = 1; i <= n; i++) {
    if (i == 1) {
        cout << fp << " ";
    }
    else if (i == 2) {
        cout << sp << " ";
    }
    else if (i >= 3) {
        int curr = sp + fp;
        cout << curr << " ";
        fp = sp;
        sp = curr;
    }
}</pre>
```

cur



```
1 2 4 8 6 ..., of num

2° 9<sup>1</sup> 2<sup>2</sup> 2<sup>3</sup> 2<sup>4</sup> ...

(int) num = 1;
(int i = 1; i <= n; i++) {
    cout << num << "";
    num = num * 2;
}
```


num= num <<1 -> 000100 -> 22 -> 4

you have to take in as ill a parint table of it. n=10 n=11 10 x 1 = 10 $11 \times 1 = 11$ 10 x 2 = 20 $11 \times 2 = 22$ 10 x 3 = 30 11 × 3 = 33 10 x y = 40 11 x y = 44 10 x 5 = 50 11 x 5 = SS 10 x 6 = 60 $11 \times 6 = 66$ $10 \times 7 = 70$ $11 \times 7 = 79$ 10 x 8 = 80 11 x 8 = 88 10 x 9 = 90 $11 \times 9 = 99$ 10 x 10 = 100 1 | x 10 = 110

Program to take n as ilp & display following things no of even terms (ii) sum of even teams (iii) no of odd terms (iV) sum of odd terms 0 < 10 < 10 Ill: N-8 even temms: 5 0/1: even sum: 20 odd torms: 4 odd sum: 16

