Write a Program that displays the odd & even values in an array alone with their indices. Moreover, it is required to display the average of even and odd Elements in that array.

Note: by using pointers notation.

```
#include <iostream>
using namespace std;
int main() {
	float array[20],*ptr[20],sume = 0, sumo =
0,avge=0.0,avgo=0.0;
	int i, p[20];
	for (i = 0; i < 20; i++) {
		array[i] = rand() % 20;
		ptr[i] = &array[i];
		cout << "\narr[" << i << "]:" << *ptr[i] << endl;
		p[i] = *ptr[i];
	}
	for (i = 0; i < 20; i++) {
		if (p[i] % 2 == 0)
		{
			cout << "\nEven Number\t"<<p[i]<<"\tAt
Index no:" << i;
			sume += p[i];
		}
		else
		{
			cout << "\nOdd Number \t" << p[i] << "\tAt
Index no:" << i;
			sumo += p[i];
		}

	}
	cout << "\n The sum of Even is:\t" << sume;
	cout << "\n The sum of Odd is:\t" << sumo;
	avge = sume / 20;
	avgo = sumo / 20;
	cout << "\n The average of Even is:\t" << avge;
	cout << "\n The average of Odd is:\t" << avgo;
}
```