Task A answers

                                         F.C

1)
```
int n = 108;                    F5    1
int ct = 0;                           1
while (n>0)                        A2+n
{
    ct = ct +1                        n
    n--                               n
}
```

Console.WriteLine(ct); $\underline{\quad 1 \quad}$

                                   $3n+3$

                         $O(n) = 10 \cancel{+5+5-5}$

                          or 10   or $O(n)$ F.C

2)
```
int n = 50;                                             1
int r = 20;                                             1
int dummy = 0;                                          1
Console.WriteLine ("Creating a nested loop");           1
for (int i = 0; i <n; i++)                              3n+1
{
    Console.WriteLine("Inside the first loop.");        n+n̶ n
    dummy ++                                            n
    for (int j = 0; j <n; j ++)                         n(n+1)
    {
        r = r+ dummy;                                   n(n)
        Console.WriteLine ("Inside the second loop " +r) ;   n(n)
    }
}
```

                                                     $\overline{3n^2 + 4n + 5}$

$O(n^2) = 2500.$