

CBSE NET July 2016 PAPER II

Q. What is the value returned by the function f given below when n=100 ?

```
int f(int n)
{
  if (n==0) then return n;
  else
  return n + f(n-2);
}
```

- (A) 2550
- (B) 2556
- (C) 5220
- (D) 5520

Ans :- (A)

Explanation:-

It's a recursive function. Its gives output like this, $100+98+96+94+\dots+0$. This series of sum shows there is a constant difference of 2. AP gives quick result.

$AP = n(nf + nl)/2$.

Here n is number of element, nf is first element of series, nl is last element of series. So , sum = $50(0+100)/2 = 2550$.

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