PA11

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Using Dynamic Programing
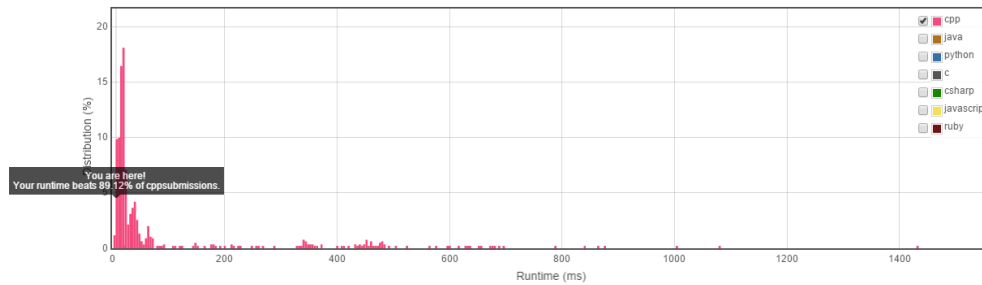
Code（C++）

```cpp
class Solution {
public:

    int minimal(int a, int b, int c)
    {
        return (a<b?a:b)<c?(a<b?a:b):c;
    }

    int nthUglyNumber(int n) {
        int* arr=(int*)malloc(sizeof(int)*n);
        int index_2=0,index_3=0,index_5=0;
        int val2=2, val3=3, val5=5;
        arr[0]=1;
        for(int i=1;i<n;i++){
            arr[i]=minimal(val2,val3,val5);
            if(arr[i]==val2)val2=arr[++index_2]*2;
            if(arr[i]==val3)val3=arr[++index_3]*3;
            if(arr[i]==val5)val5=arr[++index_5]*5;
        }
        return arr[n-1];
    }
};
```