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2-12_async_await/2-12_async_await_code.cs
 using System;
 using System.Threading.Tasks;
 class Test{
     public static void Main(string[] args){
         List<Task<int>> tasks = new List<Task<int>>();
         for (int i = 0; i < 10; i+=1){
             tasks.Add(DoStuff());
         }
         Console.WriteLine("Tasks created");
         Task.WaitAll(tasks);
         Console.WriteLine("Tasks done");
         tasks.ForEach( (t) => {
             Console.WriteLine(t.Result);
         });
         /*
         int[] values = new int[] {10, 20, 30, 40};
         Task<int> t = DoStuff(values);
         Task<int> t2 = DoStuff(new int[] \{5, 6, 7, 8\});
         t.Wait();
         t2.Wait();
         Console.WriteLine(t.Result);
         Console.WriteLine(t2.Result);
         */
     }
     public static async Task<int> DoStuff(){
         return await Task.Run( () => {
             int j;
             for (j = 0; j < 10_000_000; j++){
             }
             return j;
         });
     }
     public static async Task<int> DoStuff(int[] values){
         return await Task.Run(() => {
             int i = 0;
             foreach (var v in values){
                 i += v;
             return i;
```

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});
}
*/
}
```

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