. 1 Badioactive Deux	
- 235 y (uranium nucleus) small prabability for decaying	-
into two nuclei	
- Nu(1) is the number of uranium mulici present	
-+ is time	
- T is "time constant" - Use this ODE + Nu = Nu(o) = - 1/2	
- Use this ODE > Nu = Nuloe	Land
- Nuloj is initial number of Nuleus at t=0	1
1.2 Numerical Approach	
-Use an initial value problem, obtaining Nu as	
a function of t. give Nu at +=0	
- Taylor expansion	
Nu(Δt) = Nu(0) + dNu Δt + 2 d2Nu (Δt)2+	
11 th 11 th	
$\frac{dNu}{dt} = \frac{Nu(t+A^4) - Nu(t)}{\Delta t}$	
dt At	U.
- Since At is made to be small, we can expect	
negligable error	
그리고 얼마나 그는 사람들은 사람들은 사람들이 들어 보면 있다면 가장 하라면 주었다면 하나 보다는 이번 사람들이 얼마나 되었다면 하는데 살아 살아 살아 살아 살아 먹었다면 나다.	
- Final approximation	and park to the same
Nu (++1) ~ Nu (+) - Nu(+) A+	
- we can estimate the value at a tater time (1t)	
-Euler McHod	

	1.3 Design and	
	- Pseudocode is languar to the internal	2.1
	- Pseudorode is language into 11 be interpretated	Fai
	- Think I am outline for the rate I all the	A
	7. Declare necessary variables trarrays 1	
	3, do the calculation	
	H. Store the garcoults	
	Occlare the NE 1	
	Occlare the "Function" and arrays	
	Call the variables with different functions	
	Initialize sets the initial values	
	Calculate performs Euler method	
_	Store is like testing and calling	
	Variable lists must correspond	
10	Tally	
117	Testing your program	
	Does the output look reasonable?	
	-should have a rough idea about the results	
	Exact Ausults?	
	Compare program to known values	
	Make sure the same output for different natops	

