Facultad de Informática – Universidad Complutense de Madrid
Fundamentos de la programación I – Grupos D, G, DG-ADE y DG-Mat

Examen de la convocatoria extraordinaria – 2021-2022

Tiempo disponible: 3 horas

Un polinomio es una expresión algebraica formada por la suma de un número finito de términos llamados monomios. Un monomio es una expresión algebraica formada por un número (el coeficiente) y una variable elevada a un exponente entero no negativo. El grado de un polinomio es el mayor exponente de los monomios que lo componen.

Un polinomio general de grado n se puede escribir así

$$a_n x^n + a_{n-1} x^{n-1} + \cdots + a_1 x + a_0$$

donde a_i es el coeficiente del monomio correspondiente al exponente i. Y se puede representar en un programa mediante una lista de elementos que representan cada uno un monomio (cada elemento es una pareja formada por coeficiente y exponente).

(a_n, n)	$(a_{n-1}, n-1)$	...	$(a_1, 1)$	$(a_0, 0)$

Para facilitar las operaciones sobre polinomios, observa que los elementos de la lista se mantendrán ordenados decrecientemente por exponente.

Por ejemplo, el polinomio $p(x) = 3x^4 + 2$, se representa como:

$(3, 4)$	$(2, 0)$

Observa que los monomios con coeficiente 0 no aparecen en la lista y ten en cuenta que un polinomio nulo se representaría con la lista vacía.

Pues bien, se quiere desarrollar un programa para trabajar con polinomios de coeficientes enteros y para ello haremos lo siguiente:

1) Definir los tipos de datos necesarios para la representación de polinomios de grado máximo `MAX_GRADO = 7`.
2) Implementar algunas de las operaciones básicas con polinomios.

Detalles de la implementación.

- Definición de constantes y tipos de datos (1 punto):
  a) `tMonomio` para representar un monomio, es decir, una pareja compuesta por coeficiente y grado (ambos nº enteros).
  b) `tPolinomio` para representar polinomios de grado menor o igual que `MAX_GRADO`, es decir, una lista de tamaño variable de hasta `MAX_GRADO+1` monomios.
  c) `tListaPolinomios` para representar una lista de tamaño variable de hasta `MAX_POLINOMIOS` polinomios (`MAX_POLINOMIOS = 10`).

Arturo Cuomo

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The Navy List ,1918   **Naval Reservist** ,1957   Water-resources Investigations Report ,1996   **FPC News** United States. Federal Power Commission,1973   All Hands ,1957   Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office,2002   Distribution of Petroleum Hydrocarbons and Toluene Biodegradation, Knox Street Fire Pits, Fort Bragg, North Carolina Stephen L. Harden,James E. Landmeyer,1996   **Bulletin of the Seismographic Stations** University of California, Berkeley,1973   **Cumulated Index Medicus** ,1994   **Official Gazette of the United States Patent and Trademark Office** ,2001   *Naval Affairs* ,1950   **Daily Graphs** ,1986-04   **TIMS/ORSA Bulletin** Institute of Management Sciences,1976   **Neurodevelopment and Intelligence: Impacts of Nutrition, Environmental Toxins, and Stress (Volumes 1 and 2)** Charles A. Lewis, MD MPH,2022-03-01 This special edition of Neurodevelopment and Intelligence contains both Volumes One and Two The set provides an understanding neurodevelopmental risks during fetal and early life and of the things that can go awry that limit or hinder healthy brain development leading to a loss of intellectual abilities or causing disabilities such as autism spectrum disorder It should be of interest to anyone interested in brain health preventive medicine pediatrics public health policy present and prospective parents and those planning on pregnancy and parturition Herein Dr Lewis explains How people got smarter for more than a century and and why the alternative title of the book is Swimming in a Poisoned Pond The Looming Demise of Cognitive and Mental Health in America How any healthy child can be a genius with advanced planning All the nasty things in your home that cause brain damage The disgusting things in your water that harm the brain The prenatal vitamins that prevent autism How ADHD is a lifestyle disease The eight pillars of health and their effects on the brain What men can do to sire smarter children The environmental toxins that cause violent crime and suicide How to make your home safe for your child s brain The role of gut bacteria on the brain How to make pregnancy safer for the fetal brain Foods that improve brain function Maternal life style factors that affect IQ The seven pillars of health and their effects on the brain What men can do to sire smarter children How to make your home safe for your child s brain The role of gut bacteria on the brain The disruptive effects of sleep deprivation and sleep disordered breathing on brain development and sleep hygiene for children The effects of stress on the brain and its functioning The harmful effects of poverty on the brain How noise and noise pollution harm brain development How good public policy can give us a brighter future Foods that improve brain function and make us happy and engaged The effects of Exercise and Environmental Enrichment Kiss your genetic legacy goodbye Why you will likely never be a grandparent if you don t already have children How stress makes us stupid Why people are getting dumber even though we have better medical care and more access to education Are we already too dumb to save ourselves from our mistakes How psychopathic corporations stupidity and structural racism raid America s wealth The book is a serious scientific exploration of neurodevelopment on which policy and personal behavior changes can be based to improve health

happiness and intellectual curiosity Section I section lays out an description of the Intelligence Quotient IQ and why it can used as a proxy for neurodevelopment It explains IQ tests and other developmental scales scoring and some of their limitations The high metabolic cost of a large brain and the survival advantage provided by epigenetic adaptation to downsize the brain to the current environmental conditions is described explaining why a less costly and less intelligent brain are adaptive to leaner times An estimate is made for the average human IQ in full health and nutrition about two standard deviations above the current average or an IQ of 130 A primer on inflammation is given Section 2 discusses the impact of anemia and iron on brain development Topics include Hookworm malaria and infections Most of this section discusses iron deficiency iron supplementation in pregnancy and infancy and the role other minerals and vitamins required for blood formation Section 3 Covers the role of iodine and thyroid hormone on neurodevelopment The following chapters discuss thyroid hormone disruptors including fluoride and bromide organohalogens thyroid disrupting organic pollutants organophosphates and other biocides and foods and food additives that impact thyroid function Section 4 covers neurotoxic metals in the environment The neurotoxic metals that most commonly impact brain health are discussed including arsenic lead mercury manganese The impacts of cadmium and aluminum on fetal and infant health are reviewed Toxic metal exposure during development most commonly occurs from water contamination and Chapter 18 covers water filtration for removal of these toxins Section 5 discusses the role of toxic metals dietary factors and the role of the intestinal microbiome on the causation and exacerbation of autism spectrum disorder Evidence on the role of special diets for ASD is reviewed The timing of the development of ASD is discussed as it is essential to understanding which exposures are relevant and amenable to treatment Section 6 discussed the generation of air pollution from combustion of fuels and the adverse impacts of it on brain health Effects of Particulate matter PM on health Alzheimer s and Parkinson s disease are reviewed along with its effects on the premature birth of infants neurodevelopment IQ and autism Mitigation of risk is discussed Section 7 outlines maternal factors that impact neurodevelopment and intelligence The causes and effects of preterm birth and small for gestational age are explored with a particular focus on environmental influences Section 8 covers the effect of general health on neurodevelopment including the impact of diet on the intestinal microbiome exercise sleep deprivation sleep disordered breathing and explains the roll of lifestyle in ADHD Section 9 discusses the effects of psychosocial stress on neurodevelopment and intellectual performance and discusses the epigenetic effects of stress on brain development and behavior The role of having a supportive social environment a stimulating environment and education on brain development IQ an health are discussed The effects of prenatal stress on the brain are reviewed Other topics include the effect of stress and telomere length the effects of poverty or domestic violence on IQ score and the effects of stress on the hypothalamic pituitary adrenal axis and on the gut The effects of noise on hearing academic performance and sleep are reviewed The need to confront endemic stress as a societal norm is discussed **European Control Conference 1991** ,1991-07-02

Proceedings of the European Control Conference 1991 July 2 5 1991 Grenoble France **Index Medicus** ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Proceedings of the 1995 American Control Conference** American Automatic Control Council,1995 **AIDS Bibliography** ,1994-12 **American Heritage 50-year Cumulative Index** ,2004 **Proceedings of the 1995 American Control Conference** ,1995

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